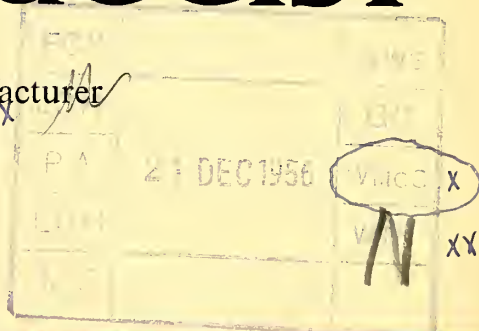


The **CHEMIST AND DRUGGIST**

For Retailer, Wholesaler and Manufacturer

DECEMBER 22 1956



ELI LILLY & COMPANY LTD

XTENDS SINCERE CHRISTMAS

AND NEW YEAR



Greetings

to all Pharmaceutical friends

and thanks them for their continuing co-operation



Lilly

OF BASINGSTOKE





FOR ALL PAIN that responds to aspirin; for all palates, and for all patients—even the dyspeptic—PAYNOCIL is universally acceptable.

FOR CHILDREN there is no pleasanter way of taking aspirin, and coaxing is seldom necessary. JUNIOR PAYNOCIL tablets contain just the right dose.

NON-IRRITANT—the aspirin particles are minutely and evenly spread over the gastric mucosa in a harmless and non-adherent form.

ACCEPTABLE—the flavour of Paynocil is remarkably pleasant and the presence of aspirin is unnoticed.

QUICK DISPERSING—the disintegration of Paynocil tablets on the tongue—without water—has been called “flash dispersal”. Chewing is unnecessary and swallowing effortless.

PAYNOCIL

EACH TABLET CONTAINS

Acetylsalicylic acid 10 grains
Aminoacetic acid 5 grains

PACKAGES in sealed foil strips:
Cartons of 18.

Dispensing packs
of 240 : basic
N.H.S. cost
(tax free)
21/8d.



Junior PAYNOCIL

EACH TABLET CONTAINS

Acetylsalicylic acid 2½ grains
Aminoacetic acid 1¼ grains

PACKAGES in sealed foil strips:
Cartons of 20.

Dispensing packs of
240 : basic N.H.S.
cost (tax free)
15/-.



C. L. BENCARD LTD. PARK ROYAL, LONDON, N.W.10

Unique U^{*}-tranquillity agent

Advances peptic ulcer treatment

Prescriptions will pour in for

PIPTAL

new 'target action' anticholinergic

* U = ULCER (PEPTIC)

Piptal is the Trade Mark

- RELIEVES PAIN AND SPASM
- CONTROLS GASTRIC HYPERMOTILITY
- CONTROLS HYPERSECRETION
- AIDS HEALING OF ULCERS
- PRACTICALLY NO SIDE EFFECTS



So be ready now!

Presented in bottles
of 50 and 500 tablets

PIPTAL is the only brand of
N-ethyl-3-piperidyl-benzilate methobromide

BENGER

BENGER LABORATORIES LIMITED
HOLMES CHAPEL · CHESHIRE

*Manufactured under license of
Lakeside Laboratories Inc.*

Solprin

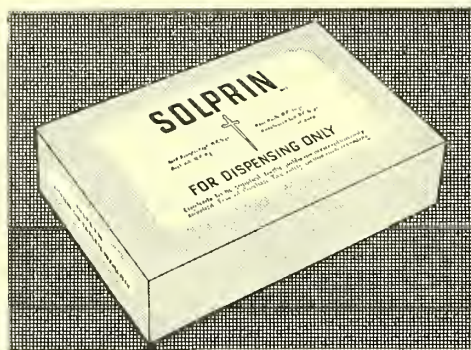


provides calcium aspirin
in pure
and stable form

The trend of medical opinion in this matter is evident. Soluble aspirin is being prescribed more and more. Solprin meets the increasing need for a soluble form of aspirin of consistently high quality.

Solprin dissolves rapidly in water to form a solution of calcium aspirin that is substan-

tially neutral. It has proved rapid and reliable in its analgesic effect, and is far less likely to provoke the gastric irritation sometimes caused by insoluble forms of aspirin. Solprin is not advertised to the public and is available only on prescription. The claims of Solprin are continuously kept before doctors.



SOLPRIN

REGD.

Aspirin in soluble, stable form

Available in 500 tablet packs

Solprin is packed in units of 10 tablets (in foil), 50 units to the pack. The N.H.S. basic price for this pack is 12/6. It is available only on prescription and only in Gt. Britain and Northern Ireland.

RECKITT & COLMAN LTD., HULL & LONDON (PHARMACEUTICAL DEPT., HULL)

*These speciality products
are being advertised
in the medical journals*

and specially detailed by all our representatives

COLLUBARB

for rapid relief in dyspepsia, hyperchlorhydria and peptic ulcer

Each tablet contains:

ALUMINIUM HYDROXIDE gr. 5
PHENOBARBITONE gr. $\frac{1}{4}$
ATROPINE SULPHATE gr. 1/500

TRADE PRICE

*Presented in cartons of 24 2/6
cartons of 100 6/-
containers of 500 21/6*

HEPOVITE

for the treatment of protein-deficiency states

Especially indicated in pregnancy and lactation, chronic infections and convalescence

A PROTEOLYSED LIVER
PREPARATION WITH ADDED MALT
AND VITAMINS A & D

TRADE PRICE

*Presented in hermetically-
sealed tins containing 5 oz. 7/6*



EVANS MEDICAL SUPPLIES LIMITED

LIVERPOOL · LONDON · NEWCASTLE · SWANSEA

Agents in Glasgow: The New Apothecaries Co. Ltd.

Show 'Elasto' — It Sells on Sight

Elasto
THE BIOCHEMIC TABLET

Your profit — $33\frac{1}{3}\%$ on each sale!

ESTABLISHED 1793

ATKINSON & BARKERS
INFANTS' PRESERVATIVE

The Infants' Medicine
of 150 years' standing

For teething and digestive troubles

ROBERT BARKER & SON LTD
13 ALISTAIR STREET MANCHESTER, 1



A REMINDER

Now is the time to remind your customers about ESOBACTULIN—if they are to remain free from colds this winter.

DISPLAY NOW AND GET RESULTS

Retail Price 7/10½d. inc. P. Tax.

$33\frac{1}{3}\%$ Discount plus Bonus 13 to the dozen.

Supplied through your usual Wholesaler.

SOUTHON LABORATORIES LTD.
84-88, UPPER RICHMOND ROAD, LONDON, S.W.15

FOR CHEMISTS



DRUGS

SUNDRIES

Manufacturing Chemists

PILLS • TABLETS
PROPRIETARIES

HEAD OFFICE & WORKS: MANSFIELD ROAD, DERBY.

Tel: 40671 (8 lines)

BRANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE.

Tel: 2816 (3 lines)

INDEX TO ADVERTISERS

Bailey, Robert, & Son, Ltd.	31	Daniel, Richard, & Son, Ltd.	4
Barker, Robert, & Son, Ltd.	4	Edme, Ltd.	33
Beecham Pharmaceuticals, Ltd.	16, 17	'Elasto'	4
Bencard, C. L., Ltd.	Cover ii	Evans Medical Supplies, Ltd.	3
Bengers, Ltd.	1, 20	Graesser Salicylates, Ltd.	28
British Drug Houses, Ltd.	5	Holborn Supplies, Ltd.	Classified Section
British Dyewood Co., Ltd., The	28	Imperial Chemical (Pharmaceuticals), Ltd.	Interleaved Edit., 694
British Felsol Co., Ltd.	Cover iv	Ingram, J. G., & Sons, Ltd.	27
Burroughs Wellcome & Co.	25	Jeffreys, Miller & Co., Ltd.	26
Chemist and Druggist Art of Dispensing	32	Kearsley, C. & G., Ltd.	26
Christy, Thos., & Co., Ltd.	6	Kellys, John (London), Ltd.	28
Compressed Paper Packing, Ltd.	34		
Cox, Arthur H., & Co., Ltd.	7		
Cuticura Preparations	23		

(continued overleaf)

chilblains

ORAL & LOCAL TREATMENT

'PERNIVIT'

TRADE MARK

is widely held to be the most effective oral treatment as well as a preventive against the reappearance of chilblains.

Containing Acetomenaphthone B.P. 7 mg. and Nicotinic Acid B.P. 25 mg. Pernivit tablets are available in bottles of 50—display cartons containing six bottles are a valuable aid to sales.

TRADE RETAIL

Bottles of 50 tablets 2/- 3/-
 „ „ 500 „ 13/- 19/6
 (Exempt from P.T.)

'PERNICREAM'

relieves, by local application, the irritation and itching of chilblains. It is a non-greasy preparation incorporating amethocaine, menthol and benzyl alcohol.

A new showcard is available in addition to the display carton of 12 tubes of 'Pernicream'.

TRADE RETAIL

Collapsible tubes 1/8 3/-
 (Inc. P.T.)

*Details of special terms
 for quantity purchases in
 B.D.H. Information or on
 application*



THE BRITISH DRUG HOUSES LTD. LONDON N.1

INDEX (cont.)

Kemball, Bishop & Co., Ltd.	30	Parke, Davis & Co., Ltd.	Leader Page
Kennett Price Markers	32	Pfizer, Ltd.	Interleaved Edit., 693
Kimberly-Clark, Ltd.	12, 13	Philips Electrical, Ltd.	15, 21
Kimpton Bros., Ltd.	8	Pierson, Morrell & Co., Ltd.	33
Kirby, H. & T., & Co., Ltd.	9	Powley, R., & Sons, Ltd.	29
Lastonet Products, Ltd.	27	Pure Lemon Juice Co.	31
Lederle Laboratories Division	Cover iii	Rendell, W. J., Ltd.	19
Lilly, Eli, & Co., Ltd.	Front Cover	Searle, A., & Co., Ltd.	30
Manesty Machines, Ltd.	18	Searle, G. D., & Co., Ltd.	24
Maylen Manfg. Co., Ltd.	32	'Solprin'	2
Menley & James, Ltd.	10	Souplex, Ltd.	26
Metal Box Co., Ltd., The	11, 14	Southon Laboratories, Ltd.	4
Mining & Chemical Products, Ltd.	18	Surgical Hosiery Co., Ltd.	26
Organon Laboratories, Ltd.	22	Thermos (1925), Ltd.	31
Orridge & Co.	Classified Section	Townsend, James, & Sons, Ltd.	32
		Ultra-Violet, Ltd.	26
		Wilson & Mansfield, Ltd.	28

They always come back for more

Advertising, and word of mouth recommendation, bring the customers in—but it's the results that bring them back.

Dr. Page-Barker's Scurf and Dandruff Lotion and D.43 Shampoo have the reputation that ensures repeated sales—a reputation for unfailing reliability in keeping the scalp clean and free from dandruff. Make sure that *you* have a share in the prestige and profits that come from stocking these ever-popular lines.

A Page Barker showcard will catch the customer's eye and remind him of his need. Available on request.

THOS. CHRISTY & CO. LTD.,
North Lane, Aldershot,
Hants.



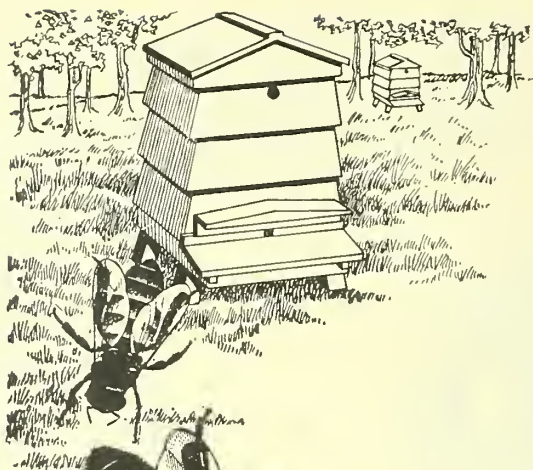


For the 118th time—
we wish you all a very
HAPPY
CHRISTMAS

ARTHUR H. COX & CO. LTD.
Manufacturing Chemists since

1839

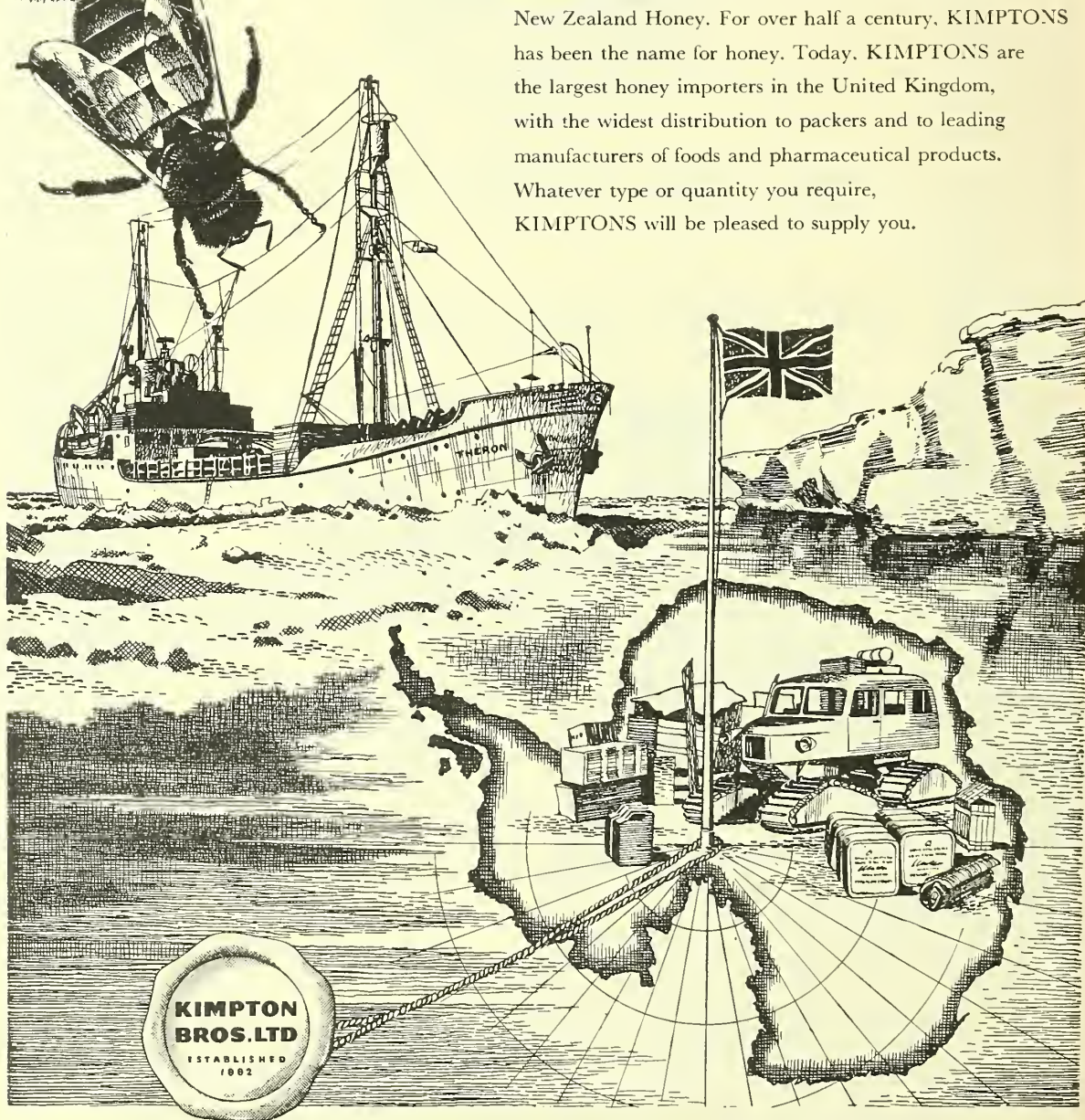
BRIGHTON · ENGLAND



SIR EDMUND HILLARY, A NEW ZEALAND BEEKEEPER, TOOK HONEY WITH HIM ON THE EVEREST EXPEDITION, AND NOW . . .

Kimptons have shipped a supply of New Zealand Honey on the Theron to the South Pole to help sustain the Trans-Antarctic Expedition

All grades of honey—unblended honey, from mild clover to the darker strong Manuka, colour graded from pure white to deepest amber—come from New Zealand direct to KIMPTONS, Sole Agents in Europe for New Zealand Honey. For over half a century, KIMPTONS has been the name for honey. Today, KIMPTONS are the largest honey importers in the United Kingdom, with the widest distribution to packers and to leading manufacturers of foods and pharmaceutical products. Whatever type or quantity you require, KIMPTONS will be pleased to supply you.



from
KIRBY



*Best Wishes
for Christmas and
the New Year*

H. & T. KIRBY & CO., LTD



*To all our
Customers &
Friends*



of

LONDON

ESTABLISHED 1866

order new and better

BENZEDREX INHALER

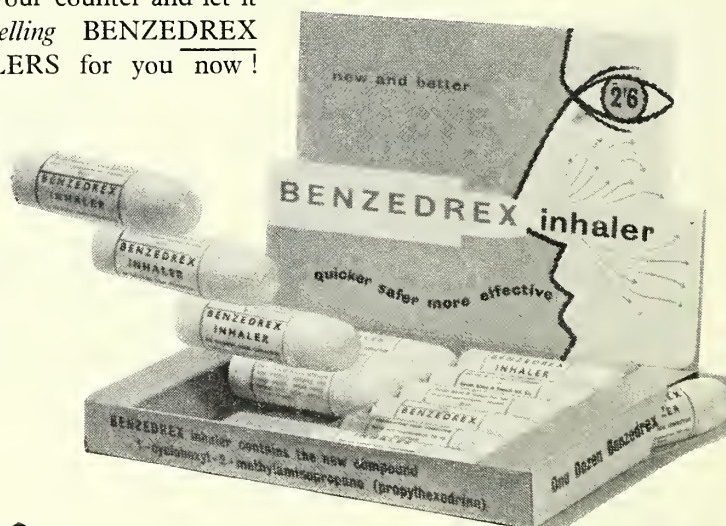
IN COMPLETE DOZENS

and send your sales and profits soaring!

When you order new and better BENZEDREX INHALER in complete dozens you get your Inhalers packed in the attractive new Display Pack—ready for work as your silent salesman. This hard-hitting point-of-sale display stimulates 'impulse buying' and gives your profits a double boost. Here are two good reasons why:

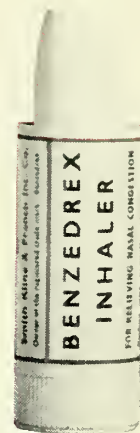
- 1 With each Display Pack dozen you get an extra FREE inhaler—thirteen for the price of twelve. Your normal profit margin is increased.
- 2 You sell more Inhalers than ever before—and each Display Bonus sale brings you the bigger Display Bonus Profit.

Display Bonus Terms increase your *profit*: the Display Pack multiplies your *sales*. Set the Pack up on your counter and let it start *selling* BENZEDREX INHALERS for you now!



AN  PRODUCT

Menley & James, Limited, London S.E.5, for Smith Kline & French



Here is your extra
FREE Inhaler



AEROSOLS ADVANCE!



IN AMERICA
A two hundred
million jump in
four years!

Sales of non-food aerosols in U.S.A.
1951 - 42 million
1952 - 97 million
1953 - 140 million
1954 - 185 million
1955 - 240 million
(Source—Chemical Specialties
Manufacturers Association Annual Survey)

IN BRITAIN
a fine beginning and ...
**METAL BOX OFFERS
THE PRECISION VALVE!**

The figures speak for themselves—and the phenomenal sales record of aerosols in America is about to be repeated in this country! Metal Box is convinced that aerosols are on the brink of a tremendous upsurge in sales—now! That is why they have taken the lead in Britain by manufacturing the Precision Valve, the most reliable valve in the world. With over 400,000,000 sales to its credit in the U.S.A. the Precision Valve is already a proved success. Added to this Metal Box can offer a choice of containers, caps and collars unrivalled for quality and sales appeal. The Metal Box research laboratories are at the disposal of all their customers and will be glad to assist in any way including, if necessary, with formulation. Remember this: aerosols still have the overwhelming sales advantage of novelty in this country. SEIZE THIS OPPORTUNITY—BE AMONG THE FIRST IN YOUR FIELD TO MARKET A PRODUCT IN AEROSOLS.

WRITE OR PHONE TO-DAY FOR FULL DETAILS OF THE
METAL BOX RANGE OF AEROSOLS



THE METAL BOX COMPANY LIMITED
The Langham · Portland Place · London W1 · LAN 2040

PACK THESE IN AEROSOLS!

For consumers

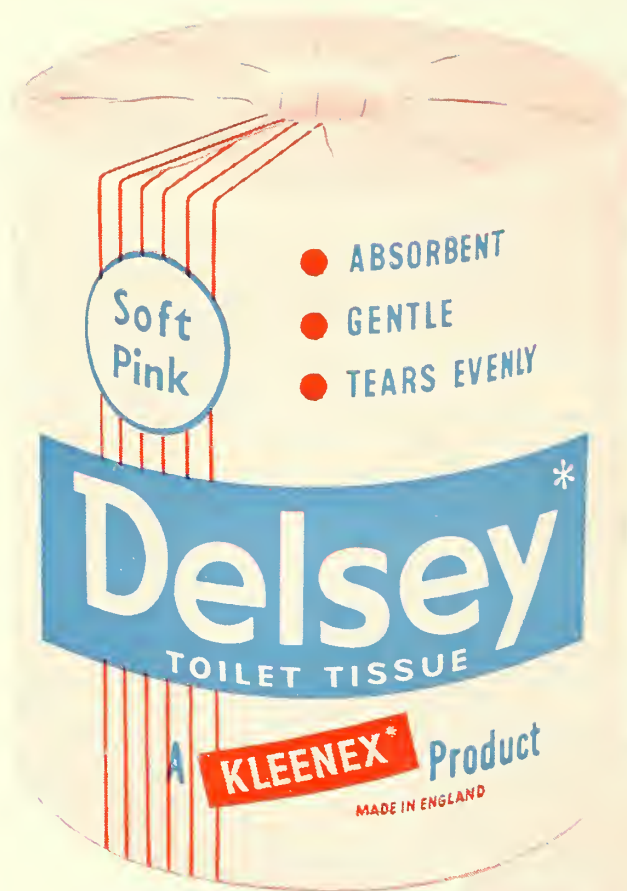
AIR FRESHENERS
ANAESTHETICS
ANTISEPTIC OILS
ANTI-GLARE SPRAYS
ANTI-STATIC SPRAYS
ANTI-TARNISH SPRAYS
ARTISTS' VARNISH
BACTERICIDES
BIRD REPELLENTS
BURN PREPARATIONS
CAR POLISHES
CAR OIL GREASERS AND
CLEANERS
CAT REPELLENTS
CHROME PROTECTORS
COLD PREVENTATIVES
CRACK SEALERS
DEODORANTS
DIAPER FRESHENERS
DOG REPELLENTS
DUST MOP SPRAYS
DUST BIN SPRAYS
ENAMELS
FIRE EXTINGUISHERS
FOOT POWDERS
FOOT SPRAYS
FUR CLEANERS
FURNITURE POLISHES
FUNGICIDES
GLASS FROSTING SPRAYS
GREASE REMOVERS
HAND CLEANERS
HAND LOTIONS
HAIR CURL AND SET SPRAYS
HAIR ORESSINGS
HAIR TINT SPRAYS
HAY FEVER ALLERGY SPRAYS
HORMONE BLOSSOM SET
SPRAYS
INSECTICIDES
INSECT REPELLENTS
LACQUERS
LEATHER TREATMENT SPRAYS
LENS CLEANERS
LUBRICANTS
MILDEW PREVENTATIVES
MIRROR CLEANERS
MOORE AIRPLANE DOPES
MOTHPROOFERS
NAIL POLISH ORISERS
OVEN CLEANERS
PAINTS
PAINT REMOVERS
PET SPRAYS
RUST PREVENTATIVES
SHAMPOOS
SHAVING CREAMS
SHOE COLOURS
SHOE POLISHES
SMOKE SPRAY FOR
BEE KEEPERS
SNOW, ARTIFICIAL
SPOT REMOVERS
SUEDE REFINISHERS
SUNBURN CREAMS
SUNTAN SPRAYS
TYPEWRITER CLEANERS
UPHOLSTERY CLEANERS
VETERINARY SPRAYS
WALL PAPER CLEANERS
WALL PAPER COATINGS
WATER REPELLENTS
WAXES
WEEO KILLERS
WINDOW CLEANERS

For industry

AIR FILTER OILS
ANTI-FOAM SPRAYS
ANTI-OXIDANT SPRAYS
ANTI-STATIC SPRAYS
BELT ORESSINGS
CLEANER LUBRICANTS FOR
ELECTRICAL CONTACTS
GREASE REMOVERS
DIESEL ENGINE STARTERS
OYE PENETRANTS AND
OVERLOPERS
FIRE EXTINGUISHERS
FIRE OIL DEODORANTS
FUR LUSTERIZERS AND OYES
INSULATING SPRAYS
LIVESTOCK SPRAYS
LUBRICANTS
METAL COATING SPRAYS
OILS, INCLUDING
PENETRATING OILS
PLASTIC MOULD RELEASE
COMPOUNDS AND LUBRICANTS
PAINT AND VARNISH
REMOVERS
PLASTIC SPRAYS
PROTECTIVE COATINGS
PUMP LUBRICANTS
RUST INHIBITORS
SILICONE RELEASE AGENTS
FOR USE ON HEAT
SEALING EQUIPMENT
STENCIL INKS
WATER REPELLENTS
WATERPROOFERS

Delsey TOILET TISSUE

NOW IN COLOUR!



Soft, Soft Pink

for today's
more colourful
bathrooms!

- Soft enough
for anyone!
- Strong enough
for everyone!



Only Delsey is clean-cut to tear evenly!

DELSEY—THE SUCCESSOR TO TOILET PAPER

HOW A CHANGE FROM **WHITE** TO **PINK** MADE A FORTUNE FOR RETAILERS

A true story Thirty years ago a man hit on the idea of introducing coloured nail polish. At that time women were able to buy only plain, neutral varnish. Coloured nail polish! Everyone laughed at the idea. But this man had noticed that buying habits, fashions, clothes, and the whole way of life of that day were changing. That simple idea of changing to *colour* made a fortune for him—and for retailers all over the world!

COLOUR MEANS BIG BUSINESS FOR YOU TODAY!

Look around you—at the vogue for contemporary furniture, the new two-toned cars, the gay new paints, furnishing and wall paper! Everywhere colour sells like nobody's business . . . everything shows that a coloured toilet tissue will be snapped up by your customers!

DELSEY MEETS THIS NEW, UNFILLED DEMAND FOR COLOUR!

This new coloured Delsey* Toilet Tissue now gives women the kind of toilet tissue they've been waiting to buy. You'll sell Delsey as fast as stocks come in! Remember, Delsey is the only nationally advertised toilet tissue *made in colour to meet today's demand for colour*.

ORDER COLOURED Delsey NOW!

New Soft Pink retails at the same price as White Delsey—1/3d. a roll. Packed 4 doz. to a case (available in ½ cases). May be included with Kleenex Tissues, Kotex Sanitary Towels and white Delsey Toilet Tissue for special display allowances. 5 cases—5%, 10 cases—7½%. Order through your Wholesaler or direct from Kimberly-Clark Ltd. (minimum direct shipment—5 cases assorted).

FIRST NATIONALLY ADVERTISED TOILET TISSUE IN COLOUR!

Another fine British product from Kimberly-Clark Limited, Larkfield, Maidstone, Kent.

* Regd. T.M.

If no single packaging material will do... consider **a LAMINATION** by Metal Box



a LAMINATION is made by bonding together with adhesive two or more layers of different materials. The moisture-proofness of one may be joined with the strength of another and the appearance of a third. Variations can be made in relative thickness, and the possibilities are both numerous and exciting.

The knowledge of laminations possessed by Metal Box makes it worth your while to consult them first whenever you are considering whether a lamination may be the kind of packaging material best suited to your product. Write or phone *today* to



THE METAL BOX COMPANY LIMITED

Plastics Group

THE LANGHAM • PORTLAND PLACE • LONDON W.1

EVAN WILLIAMS
use
DUOLAM B

for their successful colour rinse pack

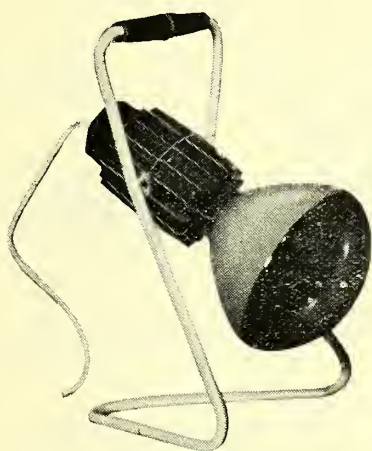
DUOLAM B is a combination of paper and Plio-film—moisture-proof, greaseproof, liquid-proof, tough, heat sealable, capable of being printed in multicolour for high standard presentation.

A LAMINATION may enable you to :

- SAVE space
- SAVE weight
- SAVE breakages
- SAVE waste
- Open new markets
- Try new sampling schemes
- Achieve new low-cost packaging

*The season for
health lamps is here again...*

Stock up with

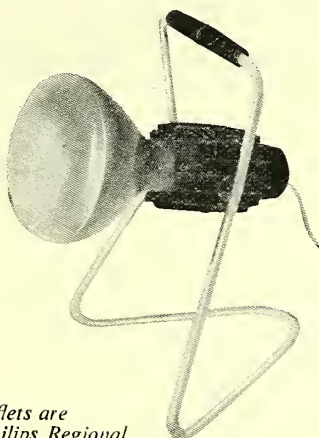


INFRAFIL Model 'B'

Of all Philips Health Lamps, this is the lightest in weight and lowest in cost. It can be used off any AC/DC mains point on 110-250 voltage range. Price £3 3s. 0d.

Ultra-violet SUNLAMP

This well-designed and versatile ultra-violet lamp is both safe and simple to use. For AC mains, 200-250 v. only. Price £5 17s. 6d., complete with protective goggles.



PHILIPS

INFRAFIL and

SUNLAMP (Made in Holland)

This month, Philips are taking full-page advertisements in the medical press. These will remind doctors of the three Philips portable infra-red and ultra-violet lamps now available for home treatment. Naturally, you stand to gain extra sales from this campaign.

N.B. These Philips lamps must only be sold when a signed medical certificate is produced.



INFRAFIL Model 'A'

This lamp has a robust, streamlined stand, the base of which can be easily fixed to a wall for downward irradiation. It has a protective casing which lessens the likelihood of damage and makes it an ideal lamp for travelling. AC/DC mains, 110-250 v. Price £4 4s. 0d.

Showcards and leaflets are obtainable from Philips Regional Branch offices, or from your wholesaler.



PHILIPS ELECTRICAL LIMITED

ELECTRICAL APPLIANCES DIVISION • CENTURY HOUSE • SHAFTESBURY AVENUE • LONDON • W.C.2

(INF1073)

D

11,608,000

Advertising for Beecham's Powders is appearing in one of the most dominating of all positions: an Express half-page on December 27th. This is but a fraction of the greatest selling campaign ever staged for Beecham's Powders—and public demand this winter has far surpassed all records. Check your stocks, and order now.

The unique prescription for COLDS and FLU



Take a Beecham's Powder
if you have these symptoms:

**SNEEZING, SHIVERING, HEADACHE
SORE THROAT, HIGH TEMPERATURE
RUNNING EYES AND NOSE
NERVE PAINS, ACHING LIMBS**

Symptoms gone—Cold gone!

The unique formula of Beecham's Powders is important to you—and to all sufferers from colds and flu. Thanks to their fine powder form Beecham's Powders are quickly absorbed, speedy in action. That's why they so quickly bring under control the worst symptoms. Sneezing, running eyes, aching head, stuffy nose, hot-and-cold shivers are quickly relieved. And, with the disappearance of your symptoms, the discomfort of your cold is gone. Beecham's Powders may save you days of misery. Millions of people enjoy the great advantages of Beecham's Powders—and so can you.

Read what people say about Beecham's Powders!

During these winter months especially, wise people make a point of carrying Beecham's Powders with them everywhere—for instant use as soon as the symptoms appear. And the letters below show clearly enough the benefits to be gained.

Bad attack of flu
"I had a bad attack of flu. Shivering all over, eyes streaming and generally feeling as if I had been hit. I instantly went to bed taking a Beecham's Powder, but I repeated every three hours. In forty-eight hours I was as good as new without any after-effects. It worked almost like magic."
(Signed) M. PARSONS
SWANSEA

Wake up—Cold gone!
"I am writing this letter in appreciation of your Beecham's Powders. Only last week I got drenched while going to the cinema and by the time I arrived home I had all the signs of a cold coming on. I took a Beecham's Powder and went to bed and the next morning there was not the slightest sign of a cold."
(Signed) R. ALMOND
LONDON, N.W. 6

Sudden cold vanishes
"... I was in my office today when I suddenly developed all the symptoms of a very bad cold—sneezing, shivering, watery eyes, etc. I went to a nearby chemist in case if he could prescribe something... and he suggested Beecham's Powders. In my amazement within an hour all signs of a cold had disappeared."
(Signed) Mrs. A. RAYCE
LONDON, S.E. 19.

NEW Family Size
In response to popular demand, a new Family Size Pack of Beecham's Powders is now on sale at 4/-.
Beecham's Powders are also sold in cartons at 9/-, or loose as 2 pouders for 5/-, and in tablet form at 1/- and 4/- per bottle.

You can rely on
BEECHAM'S POWDERS for
QUICK RELIEF!

Orders and enquiries to:

BEECHAM PHARMACEUTICALS LIMITED

people will see it!

This Half-Page for

BEECHAM'S POWDERS

will be appearing in the

DAILY EXPRESS

next Thursday

DECEMBER 27th

-Climb your sales
with these eye-catching displays

There's a wealth of attractive display material available FREE on request. Just send a postcard to Beecham Pharmaceuticals Limited. With good displays and ample stocks you'll be all set for a record turnover and record profits.

ST. HELENS, LANCASHIRE

Bislumina

BRAND BISMUTH ALUMINATE

Bislumina is a Registered Trade Mark

obtainable from the Manufacturers and Distributors

M.C.P. PURE DRUGS LTD.

or through your usual wholesaler

Bismuth Aluminate $\text{Bi}_2(\text{Al}_2\text{O}_4)_3 \cdot 10\text{H}_2\text{O}$, a patented compound, is manufactured
under licence in the United Kingdom by

M.C.P. PURE DRUGS LTD · 86 STRAND · LONDON · W.C.2

12

MANESTY

AUTOMATIC WATER STILLS

WITH THE NEW

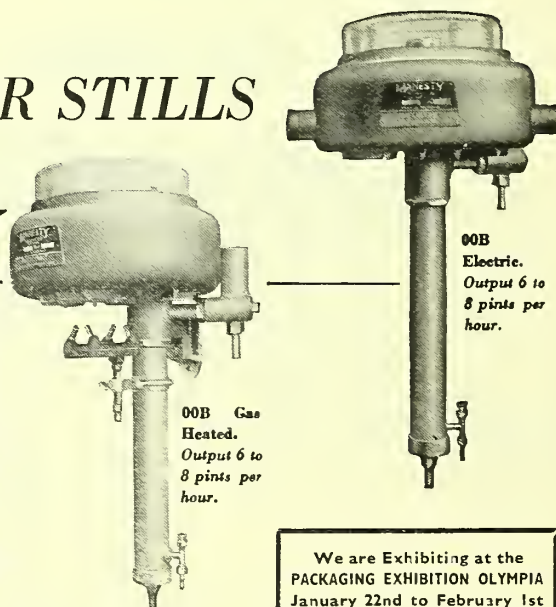
VITREOUS FINISH★

The MANESTY OB and OOB Automatic Water Stills, gas, paraffin or electrically operated models, are now available in the new vitreous finish. Simply installed, Manesty Stills ensure a constant supply of fresh pure distilled water at extremely low running costs. No storage, handling or transport problems arise, and to save further floor space, a wall bracket is provided for each model.

MANESTY STILLS are available for outputs ranging from 2 pints to 50 gallons per hour.

For further details send for our fully illustrated leaflets.

- ★ Vitreous enamelled boiling chamber (inside and outside)
Condenser Pipe, Wall bracket and Weir Chamber. Other fittings chromium plated.



We are Exhibiting at the
PACKAGING EXHIBITION OLYMPIA
January 22nd to February 1st
STAND No. 4, ROW O, EMPIRE HALL

MANESTY MACHINES LTD

5 EVANS ROAD · SPEKE · LIVERPOOL 19

Telephone: Hunts Cross 1972

Telegrams: Manesty, Liverpool 19

TABLET MACHINES • COATING PANS • GRANULATORS • MIXERS • PUNCHES and DIES

Confidence can easily
be established, and assurance
made doubly sure for every
purchaser by installing
a Rendell display.

Rendells

A stake in the future

For most men the future looks after itself, they live for today. For the few it is as real as the present.

They plan with foresight, knowing that today's thinking will set the pattern for tomorrow's action, that today's action will bear tomorrow's fruit.

We at Bengel Laboratories believe in the future. We have made major contributions to medical therapy — we will make more.

But we need more people with our philosophy.

Our marketing organization is rapidly expanding in practically every country in the world. Our share of the dollar market is increasing and new markets are being pioneered.

Our staff have unusual opportunities — ability is the criterion of their promotion.

If you are a medical representative who would welcome greater responsibility, or the young executive whose future prospects are none too clear, why not tell us about yourself, your past achievements, your present activities and your hopes for the future.

*If you feel you would like real responsibility
AND a stake in the future, write in confidence to:—*

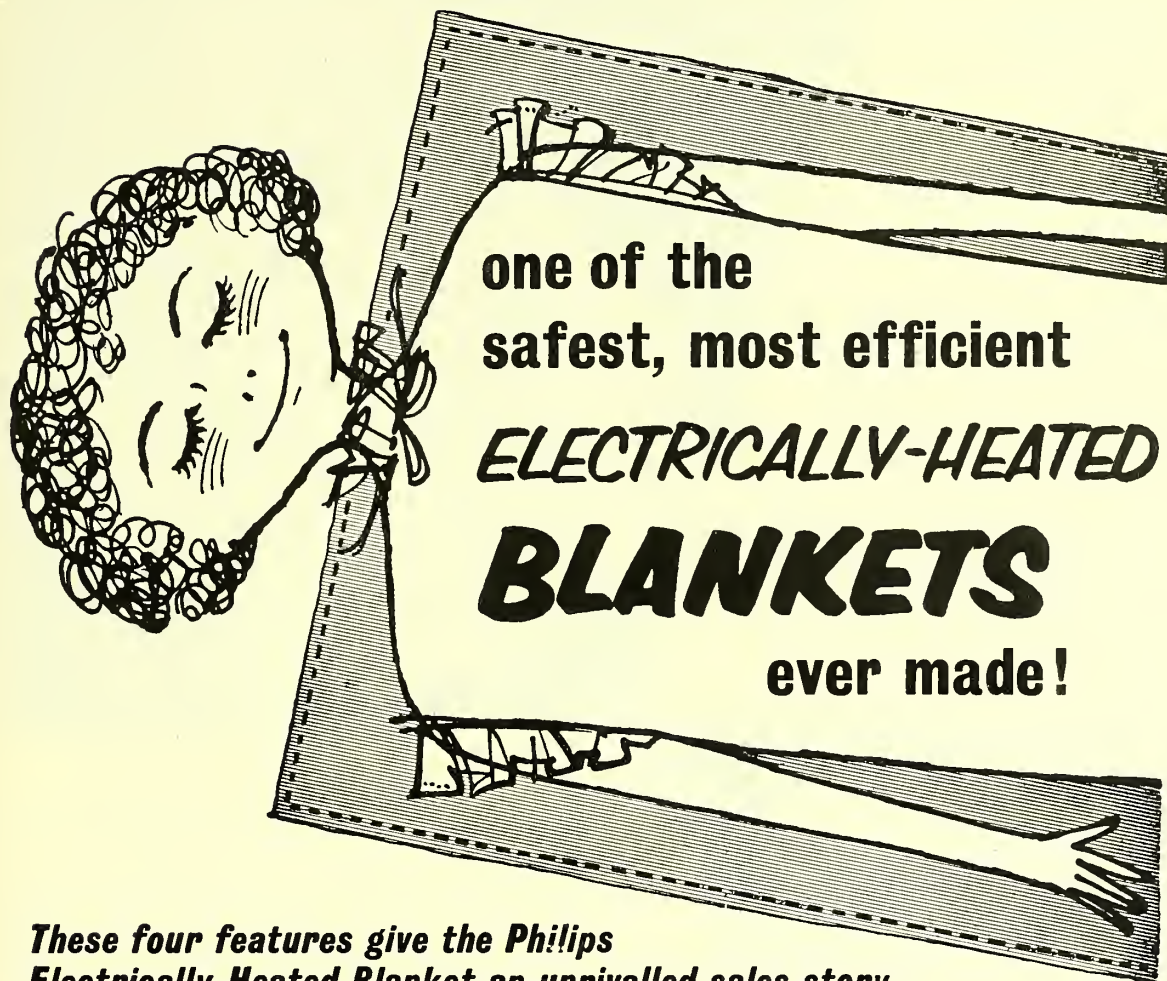
The Secretary,

BENGER LABORATORIES LTD.,

Holmes Chapel, Cheshire



PHILIPS *present...*



These four features give the Philips Electrically-Heated Blanket an unrivalled sales story

*** NO OVERHEATING**

The 'grid' wire circuit is so designed that no two parts of the wire can come together and cause overheating. This design allows only a very low current to pass through the circuit generating a gentle heat to all parts of the blanket.

*** THE INSIDE STORY**

The lining consists of a double layer of strong cotton material woven into pockets to carry the specially designed 'grid' circuit. This lining has been treated with 'Proban' which ensures a completely self-contained, flexible and fire-proof heat source inside the blanket.

*** THE COVER STORY**

The thick, fleecy material used for the outer covering is also fire-resistant—and delightfully comforting and luxurious.

*** SAFETY LIGHT**

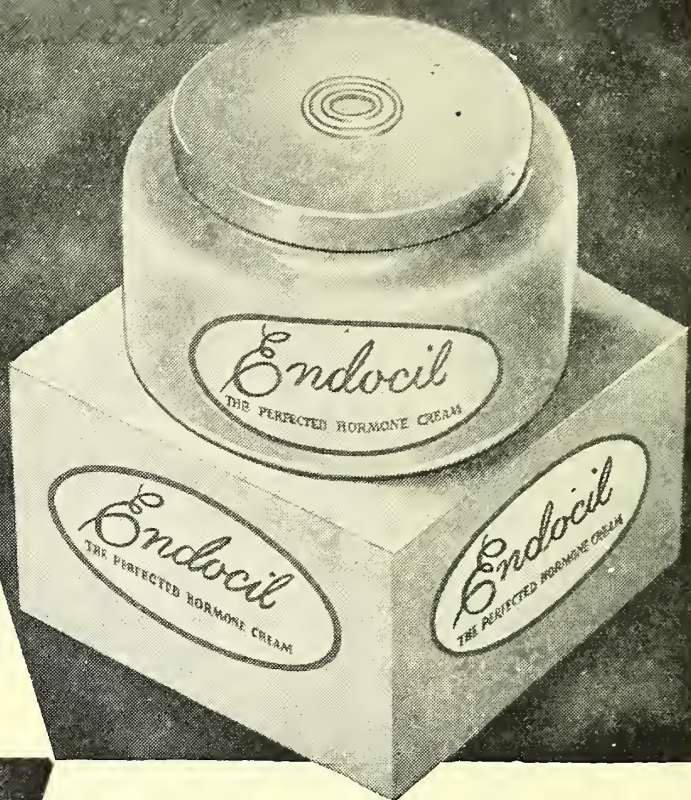
Another safety factor incorporated in this blanket is a special on/off switch in the mains lead, with a built-in neon indicator lamp that glows all the time the blanket is switched on. So in every way the Philips Electrically-Heated Blanket is one of the safest and most efficiently designed blankets you could wish to sell!

PHILIPS ***ELECTRICALLY-HEATED BLANKET***

Single Bed Size (PEACH COLOUR) : 25' x 53' — 56 watts — AC/DC — 230-240 volts **£8.12.6** (tax paid)

PHILIPS ELECTRICAL LIMITED • CENTURY HOUSE • SHAFTESBURY AVENUE • LONDON • WC2
(EL464A)

This beauty pack for Endocil



will send
your sales
higher
yet!

This handsome beauty jar is already sending sales of Endocil higher than ever.

But everything about Endocil—the perfected hormone cream made by Organon Laboratories—betokens increasing sales. Powerful advertising is carrying news of Endocil to millions of women, and the proved effectiveness of the cream ensures you repeat business.

Endocil is available only from chemists, and to help your own sales there is attractive display material available, coupled with a special display discount. Take advantage of the exceptional profit brought by higher sales of Endocil.

ENDOCIL ADVERTISING

Attractive and informative Endocil advertisements are seen regularly by millions of women in all these magazines :

**VOGUE · WOMAN'S JOURNAL · WOMAN'S WEEKLY
EVERYWOMAN · HOUSEWIFE · WOMAN & HOME**

Retail prices (including Purchase Tax).

BEAUTY JAR 13/7½ HANDBAG TUBE 5/7½

ORGANON LABORATORIES LTD. : BRETENHAM HOUSE : LANCASTER PLACE, W.C.2

WIN
the loyal
Cuticura public
to YOUR Pharmacy

Cuticura Medicinal and Toilet Preparations have a public, old established and ever expanding, which is remarkable for its loyalty to these Firm Family Favourites . . .

Cuticura Soap . . . Cuticura Ointment . . . Cuticura Talcum Powder . . . Cuticura Shaving Stick . . . now joined by Cuticura Hand Cream and Cuticura Medicated Liquid.

Cuticura advertising appeals forcefully to the new generation of teenagers and young mothers, building up each year ever more satisfied customers to swell the numbers of those who insist that nothing will do but Cuticura Quality.

WIN THESE CUSTOMERS

Just one pack of each of the Cuticura Preparations in your attractive window will catch the eye of every Cuticura Customer. They know that the pharmacy that sells their Cuticura, stocks only the best.

STOCK AND
DISPLAY
Cuticura
SOAP
OINTMENT
HAND CREAM
SHAVING STICK
TALCUM POWDER
MEDICATED LIQUID

230



THE CHEMIST
AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 166

December 22, 1956

No. 4009

CONTENTS

A Collector's Year	691
Biology's Place in Manufacture	682
Festive Occasions	676
Greetings from the Great	690
Homo Sapiens, var. Pharmacist 1956	689
Leading Article:—	
For Daily Use Throughout the Year	685
Letter to a Young Pharmacist	687
Licentiatees Receive Certificates	681
Lullabiotic	683
Molecular Structure of Insulin	695
Northern Ireland Health Board	695
Pharmaceutical Society of Ireland:—	
Council Meeting	686
Plymouth Branch Dinner (Cartoon)	677
Queer Customers	692
Sir Hugh Linstead's Canadian Tour	680
Talk Round a Table	688
Topical Reflections	675

Business Changes	678	P.A.T.A.	698
Company News	678	Pharmacist's Anthology	687
Correspondence	679	Price Changes	698
Deaths	678	Print and Publicity	698
In Parliament	674	Scottish News	674
Irish News	674	Trade Marks	698
Legal Reports	678	Trade Notes	679
New Books	686	Trade Report	696

INDEX TO ADVERTISERS, Pp. 5 & 6.

EDITORIAL AND PUBLISHING OFFICES

28 ESSEX STREET, STRAND, LONDON, W.C.2

Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

Branch Offices:

BIRMINGHAM, 2: 111 New Street

Phone: Midland 2921

GLASGOW: 35 Kingslynn Drive, LEEDS, 16: 32 Wynford Rise, King's Park, S.2, West Park,

Phone: Langside 2813

Phone: Leeds 67,8438

ANNUAL SUBSCRIPTION, which includes The Chemist and Druggist Diary and Year Book, £2. Single copies one shilling each.

Products of SEARLE Research

Pro-Banthine* The safe, potent anti-cholinergic agent for peptic ulcer.

Pro-Banthine* For peptic ulceration complicated by mental stress and anxiety.
with Phenobarbitone

Dramamine* For nausea, vomiting and motion sickness.

Mictine* The new oral diuretic for treatment of oedema.

Floraquin* A successful treatment for vaginal leucorrhoea and vaginitis.

Diodoquin* Amoebicide and *intestinal* trichomonacide.

Vallestril* The highly potent new oestrogenic compound with remarkably few side reactions.

Metamucil* The bland demulcent bulk corrective for promoting normal peristalsis and for the treatment of constipation.

WELLCOME INSTITUTE
LIBRARY

Coll.	WelMOMec
Coll.	
No.	

SEARLE

G. D. SEARLE & CO., LTD., HIGH WYCOMBE, BUCKS. Tel. High Wycombe 1770

*Registered Trade Mark.

The CHEMIST AND DRUGGIST

Volume 166

DECEMBER 22, 1956

No. 4009

★ C & D ★ C & D ★ C & D ★ C & D ★ C & D ★

FROM THE EDITOR AND THE PUBLISHER

Merry Christmas

TO ALL SUBSCRIBERS AND ADVERTISERS

★ C & D ★ C & D ★ C & D ★ C & D ★ C & D ★

Government Chemist's Report

WORK DONE ON DRUG SAMPLES

THE proportion of samples of pharmaceutical products of recent manufacture which did not conform to specified requirements in some particular or other was about 10 per cent., states the annual report of the Government Chemist, recently (H.M. Stationery Office, price 1s. 9d.).

The high figure is attributed in the report to the fact that a considerable number of samples came from the smaller manufacturers with limited laboratory facilities. Several single-dose injections failed to conform to the B.P. requirement for overage and enteric-coated tablets from several firms did not comply with the disintegration test of the 1954 B.P.C. One sample of ergot pills was found to contain a negligible amount of ergot alkaloids. Two samples of chocolate-coated multivitamin tablets containing both oil-soluble and water-soluble vitamins gave so widely differing results that the report suggests that there might be difficulties in compounding such a product. Nine samples of penicillin tablets and lozenges examined did not indicate deterioration in the pharmacists' stock to be frequent. 158 samples of surgical dressings and of a new type blood transfusion set were examined for bacterial sterility. During the year an invitation was received from a vitamin commission of the International Union of Pure and Applied Chemistry to take part in collaborative experiments on the assay of vitamin A to establish assay methods intended for use in international trade and to provide an estimate of reproducibility of spec-

tiophotometric determinations between laboratories in different countries.

Aerial Bactericides

NEW ASSESSMENT TECHNIQUE

A TECHNIQUE for determining whether a product is suitable for further investigation as an aerial bactericide, is outlined in the recently published British Standard No. 2796, 1956, "Preliminary Assessment of Aerial Bactericides." The technique can also be applied to quality control of those bactericides in factories making them. Among the characteristics of the technique which are specified are the capacity of the test chamber, the temperature and relative humidity during the test, the test organism and the ingredients for a broth medium. The requirements for taking a series of samples are included together with the method of producing the bacterial spray and the special apparatus for the purpose. The method of interpreting the results is also given. A reference bactericide is specified and a method given for its use for checking the technique of the test. Copies of the standard are obtainable from the British Standards Institu-

tion, Sales Branch, 2 Park Street, London, W.1, price 3s. 6d.

Chemists Federation

COUNCIL MEETING

A MEETING of the Chemists Federation council was held on December 6, the president (Mr. G. E. Mann) in the chair. The following application for manufacturer membership was accepted:—Medico-Biological Laboratories, Ltd. (Antipeol ointment and liquid, Enterofagos, Detensyl, Ophthalmo-Antipeol, St. James' balm, Rhino-Antipeol, Secretin Mebiol). The following additions to C.F. agreements were approved:—Birley's Antacid, Ltd. (Digespirin); Burroughs Wellcome & Co. (Migril); Clinical Products, Ltd. (Asmapax, Barbidex, Dexten, Sedaltine); Wigglesworth, Ltd. (Red Seal children's aspirin tablets). Reports were received of C.F. representatives work in Monmouthshire and Northumberland and by the assistant secretary in Lancashire. A meeting, which was addressed by the secretary, was held at Sunderland on November 22, at which a C.F. action committee was formed. The annual meeting of C.F. manufacturers is being held at the Connaught Rooms, London, on February 7, 1957, at 2 p.m. That meeting will be followed by a meeting of members (at 2.30 p.m.) at which the action being taken by the C.F. council in connection with the Restrictive Trade Practices Act, 1956, is being discussed. Further discussions on the Restrictive Trade Practices Act, 1956, were held and decisions taken on the proposed amendments to the C.F. constitution and rules. All manufacturer and

wholesaler members are being circulated about the amendments in the near future.

Pharmaceutical Research

BURSARY AWARD AT BRIGHTON COLLEGE

ARTHUR H. Cox & Co., Ltd., Brighton, have offered a bursary, of annual value £50, for research at the School of Pharmacy, Brighton Technical College. The bursary bears the name of Arthur H. Cox, founder of the company, a retail pharmacist in Brighton in 1839.

Nuclear Energy

SPECIAL COURSE AT HARWELL

NEW opportunities for industry to acquire basic knowledge of nuclear energy are available through a special course which is being held at the reactor school of the Atomic Energy Research Establishment at Harwell, Berks, June 3 to July 12, 1957. About sixty places will be available on the course. Among topics emphasised in the course is the use of radioactive isotopes in industry. Application forms are available from the school. Students who are participating are being selected in March 1957.

Electronic Computers

EXHIBITS AT SCIENCE MUSEUM

VISITORS to the Science Museum, South Kensington, London, S.W.7, during the Christmas holidays will be able to see an electronic multiplying machine in action. The machine reads two factors from small holes punched

into a card which is fed into the machine. After multiplying the two factors together the machine punches the answer in the same card. It can deal with 600 cards a minute, the actual multiplication taking about a hundredth of a second. The machine is being shown beside the pilot version of the automatic computing engine which was recently transferred from the National Physical Laboratory. Development in the field of electronic calculators is so rapid that the six-year-old pilot computing engine is now obsolete and has a decidedly antiquated appearance. The museum is closed on Christmas Day.

SCOTTISH NEWS

Benevolent Fund

CONCERN AT LOW CONTRIBUTIONS

CONCERNED at the low average level of contributions to the Benevolent Fund from members in Scotland the Executive of the Scottish Department of the Pharmaceutical Society are launching an appeal to bring the Scottish share into line with the national average. The Scottish Executive states that in recent years the amount of money distributed to beneficiaries in Scotland made it apparent that the Benevolent Fund of the Society should receive more generous support from pharmacists resident in Scotland.

NEWS IN BRIEF

AYR Executive Council has appointed Mr. D. W. Kay, M.P.S., and a Kilmarnock doctor to investigate the high cost of prescribing in Ayrshire.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

MR. F. J. ERROLL (Parliamentary Secretary to the Board of Trade) told Mr. H. WILSON, in a written answer on December 4, that no significant shortage was expected in the immediate future of the liquid feedstock from which most of the country's petroleum chemicals were produced. Some reduction in supplies early in 1957 could not be ruled out.

Patents Bill

The Patents Bill was given a third reading in the House of Lords on December 6.

Hospital Building Programme

MR. R. H. TURTON (Minister of Health) told MRS. E. HILL, in a written answer on December 12, that it was proposed that £20 millions should be spent on capital developments in the hospital service in England and Wales in 1958-59, compared with £13 millions in the present financial year and £18 millions proposed for 1957-58.

Poliomyelitis Vaccine

MR. R. H. TURTON (Minister of Health) told MR. S. P. VIANI, in a written answer on December 7, that two firms were manufacturing Salk-type poliomyelitis vaccine in Britain. No stocks were held, as all acceptable vaccine was transported as soon as it was ready. Output of vaccine was limited by the availability of buildings, equipment and staff to carry out the compli-

cated production process and by the need to satisfy the safety tests.

Motor Fuel Rationing

MRS. BARBARA CASTLE asked Mr. Aubrey Jones (Minister of Fuel and Power) on December 17 if he would increase the allocation of petrol to a firm of medical product manufacturers in her constituency to 75 per cent. The present allocation for its representatives was a mere 20 per cent, of what it was. MR. JONES replied that the allocation made to a firm was not necessarily for the exclusive use of its representatives, but for all its purposes. It was for the firm to decide how to distribute it among representatives and other employees. MR. H. WATKINSON (Minister of Transport) told MRS. CASTLE, in a written answer on December 17, that he had asked his regional transport commissioners to give special consideration to applications for supplementary fuel rations for the movement of essential medical supplies.

Prescription Levy

MR. R. H. TURTON (Minister of Health) told MR. A. BLENKINSOP, in a written answer on December 17, that he had received "a very few" letters from hospital pharmacists suggesting that the new prescription charges would involve some extra work for hospital pharmacists; it was too early to say whether any action on his part would be necessary.

IRISH NEWS

Associates' Section

MONTHLY COMMITTEE MEETING

THE committee of the Associates' Section of the Ulster Chemists' Association is protesting against the decision of the executive committee of the Association to alter the time of the Sunday rota service in Belfast (see *C. & D.*, December 15, p. 646). That was decided at the monthly meeting in Belfast, on December 10. MRS. T. O'ROURKE (chairman) welcomed Mr. H. M. Hamilton on his first attendance after having been co-opted. Accounts were passed for payment and a quotation for the supply of new rule books was accepted. There was considerable discussion on the executive committee's proposal to alter the hour of rota service in Belfast and it was resolved that a strong letter of protest against the alteration of the hour should be sent to the secretary of the executive committee pointing out that any confusion which existed in the minds of the public could be dispelled by a more suitable arrangement of the Board's rota card. The executive committee had written offering full co-operation in the Associates' recruitment drive, and the secretary was instructed to submit examples of slogans which it was wished to have inserted in the price alteration slips sent out to members. A letter had also been received from Mr. W. Gorman (secretary, Pharmaceutical Society of Northern Ireland) thanking the committee for the £25 for the Northern Ireland Chemists' Benevolent Fund, and an acknowledgment from the Lord Mayor of Belfast of a donation of £10 10s. towards the Hungarian relief fund. A report from the social subcommittee was received, and it was agreed to invite members of the subcommittee to attend the January meeting to discuss arrangements for the forthcoming dance. It was agreed that tickets for the dance (which is being held on February 28, 1957) should be available to associates only (maximum of four per associate), January 7-21, 1957, and that afterwards they should be for general sale. An advertisement of an ethical firm for a representative, which had appeared in the local Press was discussed, and it was decided to point out to the firm that pharmaceutical chemists should be given preference for such a post because doctors preferred to discuss products with qualified representatives. An application from Miss N. M. J. Porter (unqualified assistant) was approved for associateship.

Young Priests

PHARMACY BRANCH NEEDS PROMOTERS

AN appeal for promoters was made at the annual meeting of the pharmacy branch of the St. Joseph's young Priests' Society held in Dublin, recently, Mr. Malachi Leonard presiding. The annual report, which was adopted, showed that membership totalled 960. During the twelve months ended June 30, thirty-five of the Society's adopted students had been ordained. The report showed that students were being educated in the following countries: China

TOPICAL REFLECTIONS

By Xrayser

Tax Criticism—Mild and Bitter

My remarks on the New Taxation (*C. & D.*, November 10, p. 505) were couched, I can claim, in moderate language when compared with that used in a leading article in the *Lancet* of February 14, 1857. On that occasion the leader writer's wrath was directed against the tax on "patent" medicines, of which he wrote:—

It is paltry in amount. If a Chancellor of the Exchequer were not a flinty and impassable kind of animal, he must blush to the tips of his ministerial fingers at touching such dirty money. Supposing these quasi-medicaments to be really the effectual remedies they profess to be, what does the act of Government amount to? Nothing less than this: a fine upon the bowels of A, or the purity of C's blood; or a tax upon the menstrual functions of all women in the realm who require a *female* pill. . . . It is gratifying . . . to reflect, that neither is the produce of the patent medicine tax of vital importance to the movements of the State machine, nor the effect of any of these pills or potions commensurate with their pretensions. If it were otherwise, we might have the curious spectacle presented to us of a Chancellor whose agonies were only to be soothed by an abundant sale of soothing syrup; or financial distress might so far disturb his moral equilibrium, that he might, *suadente diabolo*, pray for universal constipation, a general dysuria, or a national amenorrhœa.

The article was critical of the Government's attitude to "patent" medicines, pointing out that, although a patent conferred a certain amount of protection, the rush to the stamp-office by speculators desirous of obtaining the Government mark for their compounds continued unchecked. "It certainly is not calculated to exalt our respect for the Chancellor of the Exchequer for the time being, to look upon him as the patron of all the stinking liniments, filthy unguents, and visceral persuaders vended under the Government stamp. . . . Until Government sees fit, however, to abolish the system we condemn . . . the Chancellor of the Exchequer must be content to be occasionally contemplated as the greatest quack doctor in Great Britain." Such colourful condemnation of Ministerial mismanagement may well make a modern writer envious.

Hopes Dashed

Yet again, the hopes of sufferers from the common cold (and their numbers are legion) have been dashed. A new method of approach to the problem is discounted in reports by W. L. Franz and others and H. E. Tebrock and others of a controlled pilot study and the evaluation of a new form of treatment, which involved the study of 2,000 persons (*Journal of the American Medical Association*, 1956, **2**, 1224). Recently the administration of ascorbic acid has been advocated on the theory that virus invasion is a function of capillary wall permeability and that permeability can be reduced by raising the vitamin C levels in the blood. The new approach involved an extension of that theory in that the citrus bioflavonoids enhanced the effect of ascorbic acid in maintaining, or restoring to normal, the integrity of the capillary wall. The pilot study aimed at testing the validity of the potentiation of ascorbic acid by the bioflavonoids. A bioflavonoid extracted from grapefruit peel and used in cold remedies was administered with ascorbic acid to one group; a second group was given the bioflavonoid only; a third group ascorbic acid only; and a fourth group a placebo. There was no evidence that the bioflavonoid affected the ascorbic acid level of the blood, prevented colds or cured them. Evaluation is dealt with in a separate report which states that the efficacy of a treatment of a self-limited disease must be judged not by symptom alleviation but by whether it will shorten the course of illness. Since there were innumerable drugs that made the patient more comfortable, thereby creating subjective evidence that they affected the course of the cold, a cold cure should have effect over and above the best of the relief medications. The report concludes that the overwhelming impression gained was of the singular lack of effect in altering the course of the common cold of either the bioflavonoid or the ascorbic acid. No doubt there will be other dead-end investigations before the gate to mastery of the cold is realised.

(10), Rhodesia (3), India (5), France (3), West Africa (11), Italy (3), Scotland (5), Wales (3), England (17), Ireland 387. The report mentioned that volunteers as promoters would be welcomed. A cordial welcome was extended to the Rev. E. Wall, O.P., the new spiritual director of the pharmacy branch. Addressing the meeting, Mr. LEONARD said: "The Pharmacy Branch was formed at a meeting held on December 5, 1939. Twenty-eight attended that meeting and I am glad to see here now several of those who were present that night. Three months later membership had reached 716, and our promoters numbered fifty-six, twenty-one of whom were from wholesale and thirty-five from retail. A month later membership was 856; two months later 1,060. So you see the initial work must have been intensive. Great credit is due to the men and women who formed those first committees, and who acted as promoters during that period. During the past sixteen years a meeting has been held every month (except August) and there are here tonight men and women who have never missed one of those meetings. The most important people in the Society's activities are the promoters. At the moment we urgently need new promoters." The meeting was afterwards addressed by the Rev. P. B. McGivern (a Carmelite father) and the Rev. Fr. Columban, O.F.M. (a Franciscan father).

Maximum Fine

MERCHANTS' POISONS SALE OFFENCE

BEFORE the district court in Ballybay, co. Monaghan, recently, James Corrie & Sons, Ltd., general merchants, Ballybay, were summoned at the suit of the Pharmaceutical Society of Ireland with breaches of the Sale of Poisons Act, and of the Pharmacy Act, by selling, through an unqualified person, an arsenical preparation in a container not bearing the name and address of the vendor. Through their solicitor Messrs. Corrie pleaded guilty to both summonses and asked for the fine to be mitigated since, they said, the prosecution would inform other traders who did not know the law. The district justice, after hearing the evidence, imposed the maximum fine of £5 on each of the summonses and awarded £4 4s. costs to the Society. The justice took a serious view of the case, saying that the defendants were lucky that the Acts under which they were prosecuted were passed so long ago, as in his view the fines were small having regard to the present value of money.

Conference Organisers

INFORMAL PARTY ARRANGED

AN informal party for local conference committee members and for all of those who helped organise the British Pharmaceutical Conference in Dublin in September, is being held at Elm Park golf club, Dublin, on January 19. Admission is by ticket only, and applications should be made to the College of Pharmacy, Shrewsbury Road, Ballsbridge, Dublin, or to Mr. P. McAuliffe, M.P.S.I., 93 Sandymount Road, Sandymount, Dublin, before January 10.

FESTIVE OCCASIONS

DERBY

Aiding the Ailing

MORE than 200 members and guests attended the annual dance of Derby Branch of the Pharmaceutical Society, recently. The dance, which was in aid of the Society's Benevolent Fund and Birdsgrove House, was attended by guests from the convalescent home.

SOUTH SHIELDS

Long-service Awards

At a dinner held in their honour, three employees of Mason & Co., Ltd., chemists, South Shields, were presented with long-service awards on November 15. Mr. T. A. Dalton, M.P.S., of the company's Durham branch, who has completed thirty-two years' service, and Mr. D. Goldstraw, M.P.S., manager of the Morpeth branch (thirty years), were presented with engraved gold watches. Mr. C. D. Mason (managing director) presented also a cheque and wallet to Mr. W. Peirson Mason on the completion of forty-eight years' service which coincided with his seventieth birthday. Mr. W. P. Mason was buyer to the company for a number of years and is still actively engaged in the business.

HULL

Aid for Refugee Fund

At the suggestion of Mr. E. A. Brocklehurst (a member of the Pharmaceutical Society's Council) a collection was made at the recent annual dinner and dance of Hull Chemists' Association and Branch of the Pharmaceutical Society in aid of the Hungarian refugee fund launched by the Lord Mayor of Hull, who was among the guests. Mr. Brocklehurst, who is sheriff of Hull, was responding to the toast of the Pharmaceutical Society which had been proposed by Dr. I. G. INNES (president, East Riding Branch of the British Medical Association). The guests had been welcomed by the president of the Association (Mr. James Dack), and included Mr. J. W. Milton (clerk to Kingston-upon-Hull Executive Council) and Mr. E. A. Butterwick (president, Photographic Dealers' Association).

PORTSMOUTH

Helicopter Service for Patients

A HELICOPTER service started in Portsmouth to give prompt help in poliomyelitis cases by conveying them to hospital was praised by Mr. W. R. D. Voke (Branch chairman) at the annual dinner and dance of Portsmouth Branch of the Pharmaceutical Society at Southsea on November 28. Mr. Voke said the Branch warmly appreciated the efforts of Dr. I. M. McLachlan (chairman, Portsmouth Division, British Medical Association), who was among the guests, in starting the service. COUNCILLOR A. G. ASQUITH-LEESON (lord mayor of Portsmouth) who replied, also said that Portsmouth could be proud of the lead given by Dr. McLachlan. A toast to the Pharmaceutical Society was proposed by Dr. W. TAYLOR (principal, Portsmouth College of Technology)

and response was given by Mr. W. J. TRISTRAM (a member of the Society's Council).

EDINBURGH

Thinking of the Future

PHARMACISTS' wives might be instrumental in the introduction of a superannuation scheme for their husbands if they follow the advice given them by Mr. J. B. Grosset (chairman) at the

November 14. Mr. CYRIL T. SMITH, proposing the toast to the Club, said that he had experienced nothing but warm hospitality and kindness and had seen for himself the spectacle of Scots trying to hit a ball out of sight at 4s. 6d. a time. The Club was founded in 1897 and few clubs of their age could claim to have one of their founder members still with them, and he congratulated Mr. James Finlay on the



AT EDINBURGH BRANCH DINNER: Group photographed at dinner of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society recently includes (front row) Dr. J. F. and Mrs. Birrell; Mr. J. B. Grosset (chairman) and Mrs. Grosset; Mr. W. J. Tristram; (back row) Mr. and Mrs. A. Wilson Strachan and Baillie and Mrs. D. M. Weatherstone.

annual dinner and dance of Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society held at Edinburgh on November 21. Replying to the toast of the Branch which had been proposed by BAILIE D. M. WEATHERSTONE, MR. GROSSET said that the National Health Service had contributed to the increased expectation of life. There was a growing tendency among the public to make some provision for old age by participating in superannuation or pension schemes. But the pharmacist was not so fortunate. Addressing the ladies present, Mr. Grosset said: "Perhaps your husbands are too busy to think of their old age, and perhaps by constantly reminding them, you may be instrumental in introducing a superannuation scheme for pharmacists similar to that enjoyed by the medical profession under the National Health scheme. I can only hope so." Earlier, MR. W. J. TRISTRAM (a member of the Society's Council) had severely criticised the Government's decision to charge one shilling per item on National Health prescriptions. Mr. Tristram was replying to the toast to the Pharmaceutical Society which had been proposed by Dr. J. F. BIRRELL, Edinburgh, who had described the proposed charges as "absurd." In a humorous speech Dr. Birrell traced the history of the first hundred years of the Society which he said appeared to have been largely bound up with politics in an effort to gain recognition and protection for "those who practise your noble calling."

A Rumour Refuted

THE rumour of the meanness of Scots was refuted at the annual dinner of Edinburgh Chemists' Golf Club on

part he had played in the development of the Club. Mr. R. F. MUIR (captain) said in reply that in his opinion a golf club was judged not so much by the quality of its golf as by its reputation for sportsmanship and camaraderie. He was convinced that the Edinburgh Club had in those respects set a high standard. Principal prize-winners were: *Club champion*, P. R. Fallon; *runner-up*, C. F. Ireland. *T. H. Smith trophy*, H. Semple; *runner-up*, J. W. Upton. *E.C. trophy*, A. Young. *P.G. trophy*, H. Semple. *B.D.H. trophy* (foursome), J. Leckie and A. M. Dinwoodie. *Crookes' trophy*, M. Meecham.

PLYMOUTH

Soon Sold Out

SUCH was the demand for tickets for the annual dinner and dance of the Plymouth Branch of the Pharmaceutical Society that all had been sold by November 9. The function was held in Plymouth on December 12 and was attended by nearly 200 guests. Mr. K. J. Wadge (Branch chairman) presided. The lord mayor of Plymouth proposed the toast to the Pharmaceutical Society, to which the Society's president (Mr. Granville Shaw) responded. Mr. SHAW stressed the way that the pharmaceutical profession had risen to the demands made on it by the National Health Service. His speech was entertaining, and his anecdotes much appreciated. Mr. Wadge, on behalf of the Branch, presented cheques to Mr. Shaw for the Society's Benevolent Fund, and to the lord mayor for his Christmas and Hungarian relief funds. Among the guests were Mrs. P. Holmes (chairman, Torquay Branch, Pharmaceutical Society) and Mr. H. Payne (chairman, Exeter Branch, Pharmaceutical Society).

"C&D" ARTIST AT THE PLYMOUTH BRANCH DINNER AND DANCE

DEC.
12,
1956



"195 GUESTS - A FINE MUSTER DESPITE THE PETROL RESTRICTIONS" KENNETH J. WADGE BRANCH CHAIRMAN PAST CHAIRMAN N.P.U. (PLYMOUTH)

"GREAT WORK BY THE PHARMACEUTICAL SOCIETY" - THE LORD MAYOR OF PLYMOUTH

"WE DESERVE THE LORD MAYOR'S COMPLIMENTS... GRANVILLE SHAW PRESIDENT, THE PHARMACEUTICAL SOCIETY"

"THE BITER BIT" A SHAW TOUCH

W.F.E. EUSTACE SECRETARY PLYMOUTH PHARMACEUTICAL COMMITTEE

G. LARGE IMMEDIATE PASTORALIAN OF BRANCH, PHARMACIST NAVAL HOSPITAL

A.G. MERVYN MADGE LIAISON WITH CORNISH BRANCH BRANCH SECRETARY

L.T. WAIN BRANCH VICE-CHAIRMAN, PAST CHAIRMAN N.P.U. (PLYMOUTH)

MISS VINING SOCIAL COMMITTEE

MRS. K.V. WADGE CHAIRMAN'S WIFE SUPPLIED MUCH NEEDED REFRESHMENT AT SOCIAL COMMITTEE MEETINGS.

LEGAL REPORTS

Failure to Record

AT Bristol, recently, Horace John Hill Poole, M.P.S., was fined a total of £50 after pleading guilty to charges of failing to make a record concerning a Dangerous Drug and failing to enter the date on which the drug was dispensed.

Taxability of "Know-how"

THE Court of Appeal, London, announced its award on December 13 in an appeal by the Crown against a decision by Mr. Justice Upjohn in the Chancery Division in May (*C. & D.*, May 26, p. 429). The point at issue was whether a sum of £100,000, paid to the company by the Government of the Union of Burma under an agreement, was a capital payment, or whether it was a trading receipt; if it were a capital transaction it would not fall to be included in the computation of the company's profits for 1954-55. The tax commissioners held that the sum was taxable as income, but Mr. Justice Upjohn ruled that the transaction did not fall within the scope of the company's business as carried on at the time of the agreement. Giving a reserved judgment in the Appeal Court THE MASTER OF THE ROLLS said that the situation which, in Burma, faced the company was that the Burmese Government, as a matter of policy, had determined to undertake locally themselves, or through a Government agency, the production of articles previously imported into Burma. There was ample evidence to justify the commissioner's conclusion that the company had, on the evidence, chosen the method which best exploited its business as wholesale druggists in Burma, and that the sum of £100,000 arose to the company either in the course of the trade it had hitherto carried on or in the course of a new trade which it commenced on October 20, 1953. Either way the sum was properly included in the computation—for income-tax purposes—of the company's profits as wholesale druggists for the year in question. On the question whether the £100,000 was a capital payment the Master of the Rolls referred to "*a case rather directly in point*": *Handley Page v. Butterworth*. In that case *Handley Page* had disclosed secret processes to all the world and therefore destroyed them as secret processes. Here disclosures had been made only to one person, and the substantial benefit of them was still retained by the company. Having regard to the law as laid down there, he was not satisfied that it would be just to conclude that the disclosure of the secret processes was merely incidental to the general obligation. The company ought to have the opportunity of establishing that the disclosure of those processes was an important part of the obligation, and that to a substantial extent the sum of £100,000 ought, on apportionment if necessary, to be attributable to that disclosure and ought to that extent to be treated as a capital receipt. LORD JUSTICE BIRKETT agreed.

LORD JUSTICE ROMER, also concurring, said that it was clear that one of the obligations imposed on and accepted by the company was to communicate to the Burmese Government the "know

how" relating to its secret processes. It was not open to the commissioners, in view of the decision of the Court of Appeal in *Handley Page v. Butterworth*, to hold that the secret processes which the company owned were not "property." The obligation to communicate secret knowledge relating to pharmaceutical products to the Burmese Government constituted a part at least of the consideration for which the company was to receive £100,000. That part should not be regarded as taxable income.

The order of Mr. Justice Upjohn was accordingly discharged and an order of the Court substituted to refer the case back to the commissioners to inquire and determine to what extent the £100,000 was referable to the secret processes.

For the company, costs were claimed.

THE MASTER OF THE ROLLS: No one knows quite who has lost and who has won. COUNSEL FOR COMPANY: I should have regarded your Lordship's judgments as substantially in favour of the company.

THE MASTER OF THE ROLLS: It is one of those cases where both parties go away feeling that they have had a good day. The Court, after conferring, said that the Crown should be awarded half the costs in the Court of Appeal and no costs in the Court below. Leave to appeal to the House of Lords was granted to both parties.

COMPANY NEWS

Last year's figures in parentheses

JOHN RICHARDSON & CO., LEICESTER, LTD.—Mr. J. J. C. Goddard has been elected to the board as sales director.

MORGAN BROTHERS (PUBLISHERS), LTD.—Mr. C. A. Vian has been appointed chairman of the company and will also continue as managing director.

P. P. PAYNE & SONS, LTD. — A final dividend of 15 per cent., less tax, making a total dividend of 20 per cent., less tax, on the Ordinary shares for the year ended September 30, is recommended. The following are the results of P. P. Payne & Sons, Ltd., for the past two years:—Group net profit after all charges, including taxation, £43,298 (£30,488); United Kingdom taxation, £68,750 (£38,700), group net profit attributable to the company, £42,742 (£29,596).

BARCLAY & SONS, LTD. — A net loss of £56,613 for the sixteen months ended June 30 is reported by the chairman, Mr. J. D. Akers. A large part of the loss he attributes to the London warehouse and to the distribution of Paladin food mixers; both those departments have now been closed down. Since the last balance sheet almost all trade investments have been sold so that £9,559 provision against loss on trade investments is no longer needed. The company's property in Brighton has been revalued and consequently the capital reserve has been increased by £15,054 to £19,740. To increase its earning capacity the company intends to acquire or merge similar businesses; various propositions are now being ex-

amined. (For the twelve months ended February 28, 1955, the net profit was £1,200).

BUSINESS CHANGES

CRODA, LTD., have moved to Cowick Hall, Snaith, Goole, Yorks (telephone (unchanged): Snaith 277).

HESS PRODUCTS, LTD., have moved their main sales office to 147 Kirkstall Road, Leeds, 3.

T. C. PEBERDY & SON, 46 Waterloo Street, Leicester, are removing to 104 London Road on January 1, 1957.

RELIANCE TRADING CO. are removing to 75 Fairfax Road, Swiss Cottage, London, N.W.6, on January 1, 1957 (telephone: Kilburn 0581).

MR. L. SNELLGROVE, M.P.S., has reopened (as a branch pharmacy) the premises at 57 Chichester Road, Portsmouth, which had been closed since the death of the former owner, Mr. F. H. Ruoff.

DEATHS

BOYLE. — On December 10, Mr. James Cathcart Boyle, M.P.S., 87 Manor Road North, Hinchley Wood, Esher, Surrey. Mr. Boyle qualified as a pharmaceutical chemist in Dublin in 1913. Mr. Boyle, who was a son of the late Rev. Robert Boyle of Carryduff, Ballymoney, co. Antrim, served his apprenticeship in Ballymena, co. Antrim. He was in business in Belfast for a time but since 1941 had acted as manager of a business in London. He is survived by his widow.

EDWARDS.—Recently, Mr. Arthur William Edwards, M.P.S., Rough Wood, Farnham Lane, Haslemere, Surrey. Mr. Edwards qualified in 1909. He was an executive director of E. R. Squibb & Sons, Ltd.

A colleague writes: The passing of Mr. Edwards will be regarded as a personal loss by many members of the pharmaceutical and medical professions; it would be an understatement to say that he earned the esteem and warmest affection of all who knew him. Since qualifying in 1909 Mr. Edwards, known as "A.W." by his friends, held a number of appointments and for many years he was a prominent figure in the pharmaceutical industry. He was director or managing director of several important companies and, at the time of his death, was an executive director of E. R. Squibb & Sons, Ltd. A.W. was a personal friend of some of the world's most eminent members of the medical profession and there are a host of others who are indebted to him for their progress and experience. Pharmacists will sympathise with his widow and family in the loss of a man who left behind many friends but not one enemy.

HODKINSON. — On December 6, Mr. Harry Hodkinson, M.P.S., 214 Monton Road, Monton, Eccles, Manchester. Mr. Hodkinson qualified in 1931.

HOPPER. — On December 6, Mr. Frederick Ernest Hopper, M.P.S., Wynsmoor, Station Road, Hinderwell, Saltburn-by-the-Sea, Yorks, aged seventy-one. Mr. Hopper was formerly in business in Newcastle-on-Tyne.

KYNASTON.—Recently, Mr. George Henry Kynaston, M.P.S., 123 Faversham Road, Kennington, Ashford, Kent. Mr. Kynaston qualified in 1911.

LONDON.—On December 5, Mr. Charles Herbert London, M.P.S., Lansdowne, Chalet Road, Ferring-by-Sea, Sussex. Mr. London qualified in 1916.

McKNIGHT.—At Ballymahon, co. Longford, recently, Mr. William John McKnight, M.P.S.I. Mr. McKnight qualified as a pharmaceutical chemist in Ireland in 1909. He was a former member of the Council of the Pharmaceutical Society of Ireland. He was in business in Ballymahon for many years.

RATCLIFFE.—At his home, on December 15, Mr. Charles H. Ratcliffe, aged eighty-one, Mr. Ratcliffe was a former managing director of Menley & James, Ltd.

RITCHIE.—In Stracathro Hospital, Brechin, Angus, on December 9, Mr. Andrew Wemyss Ritchie, M.P.S., Peel Place, Montrose, Angus. Mr. Ritchie qualified in 1899. A native of Kilmarnock, he served his apprenticeship with his father in Langholm, Dumfriesshire. He was proprietor of a pharmacy at 198 High Street, Montrose, from 1908 until he retired in 1955. Mr. Ritchie took an active interest in pharmaceutical affairs and was a member of the North British Executive of the Pharmaceutical Society, 1938-43. He was secretary of the Angus Pharmaceutical Committee for over thirty years, a member of the General Council of Panel Chemists (Scotland) from 1921 and of the Pharmaceutical Standing Committee (Scotland) from 1929 until he resigned in 1950. He was also prominent in local government. He entered Montrose council in 1932 and served as dean of guild and bailie before being provost, 1943-46. For nine years he was a member of Angus county council. He took a particular interest in the county public health committee, and also served on the licensing appeal court and the county valuation appeal court.

WALTON.—Recently, Mr. John Walton, M.P.S., 15 Broadway, Broadstairs, Kent, aged seventy-nine. Mr. Walton had been in business in Broadstairs for fifty-four years.

WARRICK.—At 182 Seabrook Road, Hythe, Kent, on December 14, Mr. Frederic Walmsley Warrick, Ph.C. Mr. Warrick qualified as a chemist and druggist and passed the Pharmaceutical Chemist examination in 1881. He was a grandson of John Warrick, founder of Warrick Bros., and was responsible with his brother in 1908 for the formation of the limited company. He was senior director of the company in London for many years. He originated many modern methods and machines for the production of pastilles and capsules.

WINDSCHUEGL.—On December 15, Mr. Charles Herman Windschuegl, North Cray Cottage, North Cray, Kent, aged ninety. He was founder of the firm of Charles H. Windschuegl, London, E.C.3, chemical merchants. He had no connection with the business at the time of his death, having sold his interest in the company in 1948.

TRADE NOTES

Trade Name Adopted.—Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10, have adopted the trade name PreCortisyl for their brand of prednisolone. Their name for prednisone (DeCortisyl) is unchanged.

Seasonal Good Wishes.—Christmas greetings to their trade customers are conveyed in announcements on other pages by ARTHUR H. COX, LTD., Brighton; H. & T. KIRBY & Co., LTD., Newman House, Belton Road, Willesden Green, London, N.W.2; and ELI LILLY & Co., LTD., Basingstoke, Hants.

Novel Christmas "Card."—Sponcel, Ltd., 40 Chancery Lane, London, W.C.2, have printed their seasonal greeting card on undyed sponge cellulose which has been dried, compressed and screen printed. Measuring $5\frac{1}{2} \times 4\frac{1}{2} \times \frac{1}{16}$ in., the "card" fits easily into a standard envelope but, when put into water, swells into a cellulose sponge, size $5\frac{1}{2} \times 5 \times \frac{1}{4}$ in.

Pack Size Increased.—Pfizer, Ltd., 137 Sandgate Road, Folkestone, Kent, have increased to 15 mills the content of the Tyzanol dropper bottle, so that it conforms with the Tyzanol spray-pack. The new pack supersedes the 10-mil size previously available. Orders should be clearly marked for either the 15-mil spray-pack or the new 15-mil dropper-bottle.

Tablet Cartons in a New Size.—To meet the demands of pharmacists for a carton of suitable size for dispensing foil-wrapped tablets, Thomas Waide & Sons, Ltd., P.O. Box 140, Kirkstall Hill, Leeds, 5, have added to their range two new cartons: TC9 ($5\frac{1}{2} \times 2\frac{3}{4} \times 1\frac{1}{2}$ in.), and TC10 ($6\frac{1}{2} \times 2\frac{3}{4} \times 1\frac{1}{2}$ in.). The cartons, which are intended for the foil-wrapped tablets now being so widely prescribed, are supplied plain and are available from stock. The reference number of the carton required should be stated in ordering.

Lower-priced Packs.—Riker Laboratories, Ltd., Morley Street, Loughborough, Leics, announce the introduc-

tion of two new lower-priced packs of Kolantyl tablets. The packs are based on metal-foil-wrapped rolls of twelve tablets each, which may be carried in the patient's pocket or handbag. The rolls are made up with flat tablets of the same formula as the biconvex tablets at present supplied in bottles. Chemists who dispense the tablets from the higher-priced bottles may claim repayment at the appropriate rate, provided they endorse the EC10 prescription with details of the pack.

Holiday Closings

Friday evening, December 21 to Thursday morning, December 27

ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2 (works and offices; west end pharmacy open on Monday, December 24, until 1 p.m.).

PAINES & BYRNE, LTD., Perivale, Greenford, Middlesex (skeleton staff on duty Monday morning; urgent supplies from John Bell & Croyden).

PFIZER, LTD., 139 Sandgate Road, Folkestone, Kent (skeleton staff for urgent orders on Saturday morning and Monday).

Special Arrangements

SOUTHON LABORATORIES, LTD., 88 Upper Richmond Road, London, S.W.15. Closed mid-day Saturday, December 22 to Thursday morning, December 27.

AYRTON, SAUNDERS & Co., LTD., 34 Hanover Street, Liverpool, 1. Closed Tuesday, December 25, Wednesday, December 26 and from 1 p.m. on January 1. Closed for stocktaking Thursday, December 27 and Friday, December 28. Normal working Saturday, December 29.

PARKE, DAVIS & Co., LTD., Staines Road, Hounslow, Middlesex. Scottish Branch, Carfin, Motherwell, closed Tuesday, December 25 and Tuesday and Wednesday, January 1 and 2 (emergency supplies, John Bell & Croyden, 50 Wigmore Street, London, W.1).

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Shops to Let

SIR,—Under your news heading "Shops to Let" (C. & D., December 15, p. 643), you mention that pharmacists are failing to apply for sites on new housing estates. I wonder if there have been similar scarcities of applicants for grocers', butchers', bakers', newsagents', etc., premises. Councillor Meadows of Birmingham is perfectly correct in his statement, as reported. I feel that the solution must be largely in the hands of the chemists' associations. Twenty years ago there would have been ample inquiries for chemist shops on Council estates, but the pharmaceutical scene has changed. The chemist is no longer an integral part of any group of shops. Apart from N.H.S. dispensing he is now unnecessary, because of the large-scale distribution of chemists' goods through other hands. Only by a system of

slavery can many small chemist shops continue to exist. The more enlightened members of our calling are no longer prepared to put up with such conditions. Pharmacy needs leadership of the sort that will insist that the proper place to buy medicinal requirements is at the chemist shop. Instead of the number of outlets being added to, limitation of the number of pharmacies should be the policy that should be pursued by the chemist associations.

Stafford

JOHN BLACK

Appreciated

SIR,—I would like to record my appreciation of the very splendid service the C. & D. renders to all interested people, but particularly to the retailer and dispenser wishing to keep informed of week to week progress in all departments.—J.R.H.

SIR HUGH Linstead's CANADIAN TOUR

Praise for hospitality received

IN a recently-issued report on his visit to Canada, October 1 to November 4, Sir Hugh Linstead (a secretary of the Pharmaceutical Society) comments favourably on the standards of pharmaceutical practice there. The overriding impressions gained from the report, however, are the overwhelming hospitality of Sir Hugh's Canadian hosts, the great interest Canadians have in the National Health Service, the high-pressure publicity given to his visit, and the excellent planning of Sir Hugh's itinerary by the Canadian Pharmaceutical Association which was Sir Hugh's host.

The following is a shortened version of the report:—

I travelled 18,000 miles mainly by air and visited nine of the ten provinces of Canada. I addressed twenty-eight full meetings. The Canadian Pharmaceutical Association and several provincial pharmaceutical associations made me an honorary member. The University of British Columbia gave me the honorary degree of LL.D.

In Toronto I spent an afternoon discussing the National Health Service with the Canadian Medical Association.

2,087 Handshakes

The Canadian Pharmaceutical Association was my generous host. Their hospitality was supplemented by private individuals and I shook hands with 2,087 Canadian pharmacists. The total of all their efforts was to leave as the outstanding impression of the tour the warmth of Canadian kindness and hospitality. Mr. John Turnbull (secretary-manager, Canadian Pharmaceutical Association) accompanied me throughout the tour, took all responsibilities for hotels and plans and managed the whole time-table with precision. He has a large share in whatever success our tour enjoyed.

I met the Lieutenant-Governors of four provinces, and the Premier of Prince Edward Island came to the official dinner there. I met the Federal Minister of Health at lunch in Ottawa and provincial Ministers of Health in Prince Edward Island, British Columbia and Alberta. Many Federal and provincial officials took the opportunity to discuss health questions with me. So did some hospital administrators.

Public relations were organised on a truly North American scale. The general pattern was a Press photographer at the airport and a Press, radio and television conference immediately on arrival at the hotel. Variations were a ride into Vancouver from the airport between two journalists, a tape-recording at 1.30 a.m. in Brandon for the local radio station and a ten-minute televising without notice at Saskatoon. For the conferences, the hotel room would be taken over by journalists, tape-recording technicians and their boxes, two or more photographers and sometimes a movie-camera with its batteries of lights. Thirty minutes later the whole party would have silently stolen away. For the most part those interviews centred on N.H.S.

Each province except New Brunswick, Prince Edward Island and Newfoundland has a pharmacy department in its provincial university. By agreement between the provincial pharmaceutical associations and the universities throughout the Dominion the courses cover four years and lead to the degree of Bachelor of Science in Pharmacy (B.S.P.). Higher degrees are offered. The degree of B.S.P. is a registrable qualification in the province in which it is gained, subject to the completion of eighteen months' apprenticeship (twelve months to be consecutive) before, during or after attendance at the university. The courses follow a fairly standard pattern. The first year includes English, chemistry, physics, biology and pharmacy; the second introduces physiology and pharmacognosy; the third adds pharmacology and biochemistry. The fourth year provides for "electives"—courses directed to the special needs of retail or hospital or manufacturing pharmacy. It is also possible in Saskatchewan to include in the fourth year the necessary subjects for the certificate in clinical laboratory technique. Short courses of lectures are also given in subjects such as accounting, marketing principles, business administration and personnel management. At the University of Saskatchewan there is a university hospital with a well-equipped pharmaceutical department. There, not only all the normal work of a hospital pharmacy is done, but also the whole of the sterilisation for the theatres and a syringe sterilisation service. The director of pharmaceutical services in the hospital is associate professor of pharmacy in the university. I formed the impression that pharmacy is well esteemed in the hospital world in Canada and that the senior posts are sufficiently rewarding in both salary and opportunity to provide a satisfying career and to attract and retain good men.

Retail Pharmacies

I visited a number of retail pharmacies. The standard of all the dispensaries I saw was excellent but their layout and appearance was strange to European eyes, following the American pattern and including candy, tobacco and magazine counters. Some pharmacies included coffee bars, one had extended into a restaurant and another had added above the store a hotel, also owned by the pharmacist. Those activities seemed not to detract from the general high standard of the pharmaceutical work. The most remarkable I saw was the *Pharmacie Montréal*, which must be one of the largest in North America. At the time of my visit three pharmacists were engaged solely in taking down prescriptions on the telephone! Prescriptions are kept by the pharmacist in Canada and filed and indexed. Something like 90 per cent. of the prescribed medicines are proprietaries. Taking account of exchange rate and of the difference in price levels, I calculated that the average cost of a prescription in Canada

is 9s. compared with 13s. in the United States and say 5s. in Great Britain.

There is no reciprocity between the provinces. If a pharmacist wishes to practise in a province other than the one in which he graduated he must apply to the pharmaceutical authority, giving particulars of his training and experience, which are examined by a special committee. The applicant is expected to show that his original course was not shorter than that required in Canada at the time when he took it. British pharmacists are dealt with under that procedure. I inquired whether, statutory requirements apart, British pharmacists were welcome and would feel at home in Canadian pharmacy. Canadians everywhere assured me that they would and the dozen or so younger British pharmacists whom I met all declared they had been well-received by their Canadian colleagues.

The council of the Ontario College of Pharmacy, since my visit, is re-examining the regulations governing registration as a pharmaceutical chemist of graduates from outside the Province.

I cannot assess the value of the tour to the Canadians. But the opinion was so freely expressed that they had found my visit a great stimulation to them to face their problems.

MISINTERPRETED

SIR HUGH ON HIS LEVY SPEECH

SIR Hugh N. Linstead, M.P., has sent the following letter for publication:—

SIR,—My speech on the prescription charges has been misinterpreted, and certain additional facts should go on the record. During the three weeks before the debate the charges had been my particular preoccupation, and I sought by the various means available to me—by personal interviews and in committee meetings—to secure that the orders should not be proceeded with, either at all or at least in the form in which they had been presented. Those endeavours failed. I had the opportunity the day before the debate to make representations—again unsuccessfully—to the highest authorities. This is a necessarily guarded account, but I am sure that members of the Society with political experience will understand what is implied in it.

My speech was not particularly palatable to the Government—rather the contrary—but even so it must be read in the light of the circumstances in which it had to be made—on the day after the return of the Foreign Secretary from taking a momentous decision on behalf of this country before the United Nations, and when conditions in the House of Commons were far from normal. All possible steps had been taken to cause other counsels to prevail in regard to the orders. There are times when it is not possible to round on the Government of one's country in public, and in my judgment at the time that was one of them.

HUGH Linstead

House of Commons

PHARMACEUTICAL SOCIETY OF IRELAND



A group of licentiates with Mr. P. F. McGrath (president, seated, centre), members of the Council of the Pharmaceutical Society, and lecturers at the College of Pharmacy.

LICENTIATES RECEIVE CERTIFICATES

First gold medal for six years awarded at Dublin ceremony

THE first licentiate's gold medal awarded since 1950 was presented to Miss M. S. G. Edwards, Dublin, at the annual licence conferring ceremony of the Pharmaceutical Society of Ireland in Dublin, on December 4. Sixty-one graduates received licentiate certificates from Mr. P. F. McGrath (president of the Society) who was accompanied on the platform by Messrs. M. Power (vice-president), H. P. Corrigan (treasurer) and robed College professors and examiners. One of the new Licentiates, Captain William Patrick Murphy, wore the uniform of an officer of the Irish Air Corps to which the president himself had been attached as a serving officer, when he received his own Licentiate'ship.



Capt. W. P. Murphy

In the course of his address to the new licentiates THE PRESIDENT said: "To those of you who contemplate opening or managing pharmacies I should like to stress how desirable it is that you should associate yourselves as fully as possible with community and public life. When a pharmacist plays a prominent and able part in public affairs it redounds not only to his own but to his profession's credit. It is essential, too, that the younger generation should take an active interest in the affairs of the Society. Some of you will be the Council members of the future and you should prepare yourselves for the work which lies ahead." Already they would have gained experience from participation in the activities of the Irish Pharmaceutical Students' Association. One of the new licentiates was vice-president of that body. The annual conference of the International Pharmaceutical Students' Federation was being held in Ireland in 1957, and know-

ing the benefits that had been derived from the British Pharmaceutical Conference which had been held in Dublin three months ago, the Council of the Society was gratified that the student body was acting as host to an international gathering. Such conferences did a great deal of good—they broadened the horizon of those who participated, stimulated interest in pharmacy and medicine, and made students appreciate the necessity for constantly raising the standards of examinations. Not least they promoted friendship between countries which, because of political differences, might not otherwise find points of contact.

Lack of Facilities

"Leading educationists have commented recently on the lack of facilities in our schools and colleges for the teaching of science subjects. Those references have been of great interest to your Council and have raised the hope that our educational bodies will awaken to the necessity for providing even elementary courses in the basic sciences. As you know a prerequisite for registration as a pharmaceutical student and entry to the College of Pharmacy is a pass in physics and chemistry, or in general science in the Matriculation or Leaving Certificate examination. Time and again parents complain that whilst they have no difficulty in getting their children taught the other required subjects (Irish, English, Latin and mathematics) well-known schools do not provide instruction in physics, chemistry or biology. That is a serious reflection on our educational system and a severe handicap to the student who intends to follow any profession which demands a basic education in science subjects. The Society has just completed a new biological laboratory which augments the facilities already available for students in the College; and which should prove of inestimable value to students and staff in the future."

The president concluded by paying tribute to the late Professor Harold Norminton, who had been their dis-



Mr. P. F. McGrath (president) hands Miss Edwards her gold medal and congratulates her on her achievement.

tinguished and able professor of chemistry for some thirty-eight years. Several generations of Irish pharmacists had passed through Professor Norminton's hands, and all had memories of him as an understanding teacher.

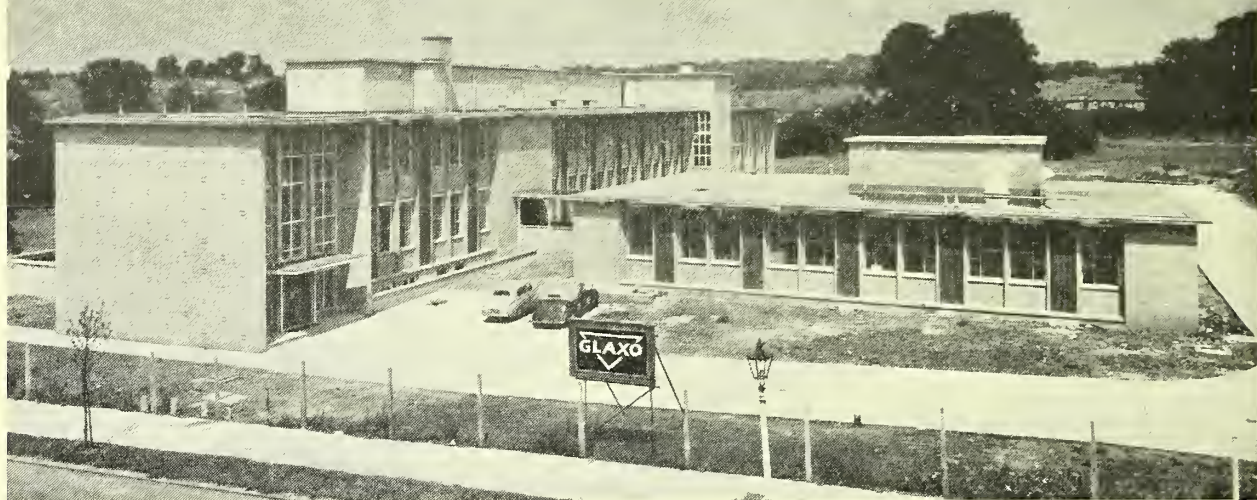
Benevolent Fund Dance

MORE THAN 500 ATTEND

THE annual dance in aid of the Benevolent Fund of the Pharmaceutical Society of Ireland, held in Dublin recently, was attended by more than 500 patrons. Among those present were Mr. P. F. McGrath (president of the Pharmaceutical Society of Ireland), and party, Mr. C. A. Quinn (president of the Pharmaceutical Society of Northern Ireland), Councillor Robert Briscoe, T.D. (Lord Mayor of Dublin) and the Lady Mayoress, Mr. F. J. Robinson (president of the Irish Drug Association) and Mrs. Robinson, Mr. M. Power and Mr. J. G. Coleman (vice-president and registrar respectively of the P.S.I.). Many of the new licentiates who had received their licences that afternoon were present including Miss Maire Edwards (gold medallist). The Minister for Health, who had accepted an invitation, was unable to attend. "Spot" prizes were awarded and lady members of the dance committee did brisk business with raffle tickets.

BIOLOGY'S PLACE IN MANUFACTURE

A new biological department at Greenford puts production side by side with research



FOR a few hours on a Thursday in early December Glaxo Laboratories, Ltd., Greenford, lifted the lid on what goes on inside their most recently housed activity: the Glaxo biological department.

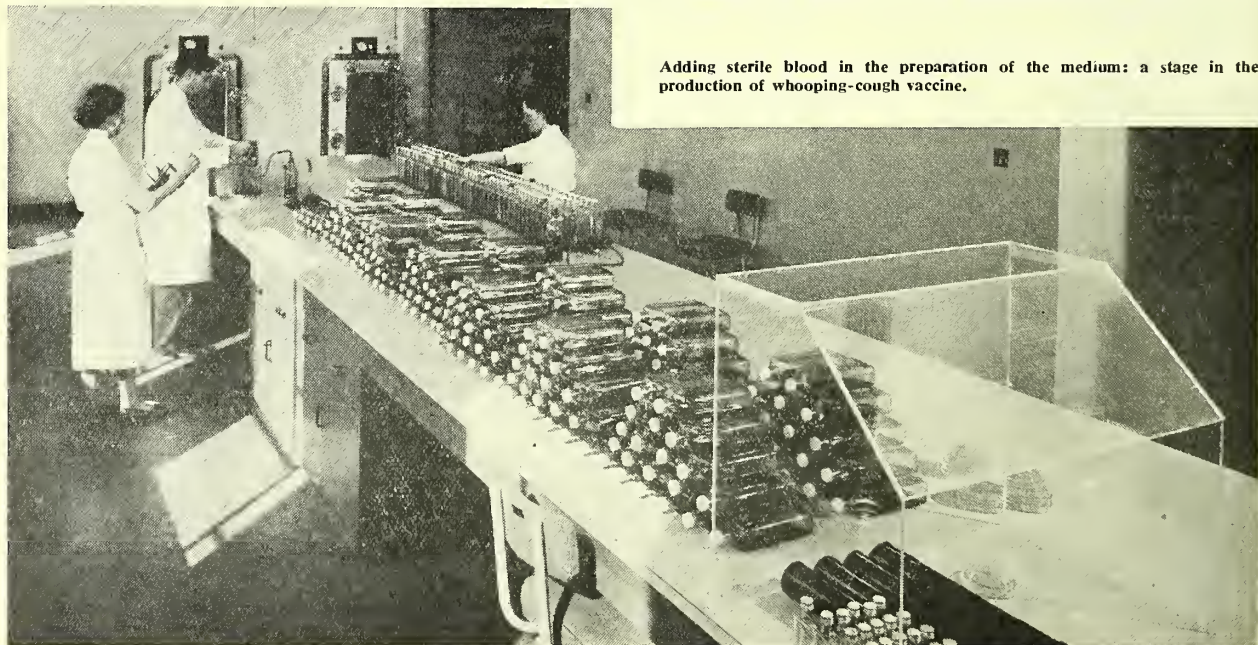
In a group of buildings (a two-story main block and two single-story wings), in which design for a practical purpose and design to please the eye are happily wedded, production, development and research go hand in hand.

Under Dr. J. Ungar as head of the department are three vaccine units (aerobic, anaerobic and B.C.G.), a histopatho-

logical section, microbiology and virus units, and a veterinary research unit. The buildings are entirely air-conditioned, and the general air-conditioning system is even augmented with independent systems in the B.C.G. vaccine, virus, and tuberculosis research rooms.

B.C.G. Vaccine "Mass-produced"

Great topical interest attaches to the B.C.G. vaccine unit because, in producing a freeze-dried product, the company has become the first pharmaceutical manufacturer in Britain to make the vaccine on a mass-production scale. The



Adding sterile blood in the preparation of the medium: a stage in the production of whooping-cough vaccine.

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

For Daily Use Throughout the Year

COPIES of the *C. & D. Diary and Year-book*, 1957, are now going out to subscribers. Some, we know, have already been received, for one recipient has written describing the *Year-book* as "more useful than ever," and another, congratulating us especially on publishing a table of antibiotics, sent a request—to which we hope to accede in due course—to publish a table of another important group of medicaments.

Modestly we acknowledge both tributes. In a literary section containing so high a proportion of directory information (merely to keep which up-to-date annually is an important service greatly valued by *Diary* users) it is difficult to find room for manoeuvre for new features. That has been done this year by dropping the "Cross Index of Drug Names." The omission was not made without regret, for the Index, the only thing of its kind, is in the circumstances of pharmacy today an indispensable adjunct to the dispensing department. The fact was that it was an expanding feature, devouring more pages each year, and threatening in time to consume all the space available in the *Year-book*. However, we hope to announce shortly an alternative method by which the information will be made available to all those who find it useful.

The principal features that take its place are an authoritative exposition of the Restrictive Trade Practices Act, 1956, in those parts which concern the distribution of medicinal and allied products (especially details of agreements, registration and court procedures); and the Table of Antibiotics already referred to. The table runs to seven pages—more than we bargained for when the intention of including it was conceived. It gives indications, proprietary presentations, and trade names of thirty-two antibiotics or mixtures of antibiotics, and we need hardly emphasise the value to the pharmacist of being able to refer to such comprehensive information in so compact and convenient a form. Even so, the field with which the table deals continues to expand and already one or two newcomers [oleandomycin (Matromycin, Romicil)] are on the market.

Time has also caught up this year on our annually revised summary of the pharmaceutical services under the National Health Service (Great Britain). The summary remains accurate so far as it goes, and has indeed been improved by notes on the drug testing scheme and by fuller details of the prescription forms in use for various purposes, but it contains (because it was

introduced at too late a date) no reference to the levy in its new per-item form.

Time caught us out also on the salary rates for pharmacists. To meet the requirements of the binders an autumn printing date is dictated for the *Year-book*, and new rates for qualified and unqualified personnel in retail pharmacy (under the ninth agreement of the National Joint Industrial Council for Retail Pharmacy) were announced in November. There was just time to get slips printed for pasting over part of the already printed table on p. 358, and a slip was accordingly inserted loose into each copy sent out (apologies are given for the poor colour match, though that may serve to draw attention to the changed amounts now agreed). The punctilious should also cross out "eighth" and substitute "ninth" before "agreement" near the foot of column 2, p. 358. New hospital rates have been announced even more recently (see *C. & D.*, December 8, p. 617). On p. 321, the officers and members of Council of the Pharmaceutical Society of Northern Ireland should be altered in accordance with the details given in the *C. & D.*, October 27, p. 467.

In improving the list of chief pharmacists in hospitals, we gratefully acknowledge the ready co-operation given by a number of individual hospital pharmacists, and especially by secretaries of branches of the Guild of Public Pharmacists. Without their help the list, which is, in the nature of things, unlikely ever to be 100 per cent. perfect, would have been much less complete than it is.

Users of the inserted Retail and Dispensing Price List should make a point of examining especially the "Methods of Pricing Prescriptions" (p. 1), where the charges for dispensed items are at advanced levels.

The metric-to-imperial ready reckoner, crowded out last year, has been brought back in shortened form. Also brought back as an "every-few-years" inclusion is a review of the legislation governing patents, trade marks, designs and copyright. Information on how

URGENT PRESCRIPTIONS



"She says she's in a hurry."

businesses are assessed for tax will be welcome to many, and the purchase-tax pages are—touch wood—up to date “as of now.” Minor improvements include rearranging the list of Dangerous Drugs so as to make reference to it quicker and easier; putting the Contents table into a single column; and printing an inches-and-eighths rule along the edge of the Contents page. (It may be reassuring to know that such a printed measure is in reserve when the whereabouts of one’s customary ruler are not quickly ascertainable.)

The Trade Directory and Buyers’ Guide sections are as comprehensive as usual, and the principal aim of advertisers in the *Diary* (of providing information) has been successfully combined by many of them with attractive artistry and colour. There are calendars for three years, and postal information relevant to the business purposes of *Diary* users. Between those two items are—for home users—pages adapted to provide either a reminder of appointments to keep and meetings to attend, or a record of events as they take place—or, again, to make whatever use one likes of it. In all, the volume is an extra assistant (never off duty, always well informed) at one’s service at counter, on dispensing bench, or on office desk.

PHARMACEUTICAL SOCIETY OF IRELAND

Monthly meeting of Council

DESPITE the Minister for Agriculture’s initial refusal, a deputation from the Council of the Pharmaceutical Society of Ireland has met the Minister to discuss certain provisions in the Animal Remedies Bill, 1956. That was reported at the Council’s monthly meeting held in Dublin on December 11, Mr. P. F. McGrath (president) in the chair. Also present were Messrs. H. P. Corrigan (treasurer), V. McElwee, G. C. O’Neill, J. Gleeson, F. J. Robinson, C. J. Cremen, J. P. Kissane, T. R. Miller, D. J. Kennelly, M. Costello, T. B. O’Sullivan, M. L. Cashman and Miss L. Cunniffe. Mr. James G. Coleman, B.L. (registrar), was in attendance. Apologies for absence were received from Messrs. M. Power (vice-president), J. J. O’Regan, E. McSweeney and A. A. Toher. THE PRESIDENT said that during the month, Mr. Power had attended three meetings in addition to several social functions, and deserved to be excused from that meeting.

Animal Remedies Bill

THE PRESIDENT reported that a request had been made to the Minister for Agriculture asking him to receive a deputation in connection with the Animal Remedies Bill, 1956. A reply from the Minister’s private secretary had quoted the Minister’s statement in the Senate debate in which he would not agree to a proposal to exempt “the pharmaceutical chemist from the obligation of writing on the label of a bottle he shakes up for a farmer in the shop the description of its constituents whereby the farmer would be invited to judge the value of the mixture,” and further that “the pharmaceutical chemist shaking up a bottle *ad hoc* ought to have the same obligation as a patent medicine manufacturer to write on the label substantially the contents.” In the circumstances the Minister considered it unlikely that any useful purpose would be served by discussing the matter further. The Society had replied pressing for a deputation to be received and pointing out that whilst it was desirable that the formula of an animal remedy should be disclosed when the preparation was packed for sale in the commercial sense, difficulties arose when a pharmacist supplied a remedy compounded at the request of the owner of the animal. In the case of preparations made by a pharmacist, dispensing chemist and druggist, or a registered druggist it was urged

NEW BOOKS

Calendar of the Pharmaceutical Society of Great Britain, 1956–57

Pharmaceutical Press, 17 Bloomsbury Square, London, W.C.1. 8½ x 5½ in. Pp. 309. 17s. 6d. (postage tenpence).

THE form of the Calendar is maintained as an easy and complete reference to the officers, administration and activities of the Pharmaceutical Society. Regulations are detailed for the Intermediate, Qualifying and Diploma in Biochemical Analysis examinations; and scholarship awards, made by the Council of the Society, are listed. A section of the book is devoted to forensic pharmacy and there is a chapter giving references to important cases in the courts brought under the Pharmacy Acts.

The House of Twining

S. H. TWINING. *R. Twining & Co., Ltd.*, 216 Strand, London, W.C.2. 9½ x 6½ in. Pp. xi + 116. 21s.

JUST 250 years ago Thomas Twining became master of Tom’s coffee house, Devereux Court, in the Strand, London. On the same site, successive descendants of his have developed a tea and coffee business today known the world over. Whilst outlining the history of the business the book recalls the development of the tea trade. A well-illustrated work, it captures the atmosphere of the period by the apt use of reproductions, paintings, prints, sketches and historical documents, selected from the company’s archives, the marginal pen-sketches being particularly interesting.

that control should be exercised by the Department if the name of the remedy or its nature was put on the label together with reference number of the formula in the prescription book and the name and address of the person who made the preparation. From the reference number the Department could at any time determine what was supplied. Subsequently, the president said, the Minister had received a deputation comprising the vice-president, Mr. Loughman, the registrar and himself. They had contended that pharmacists had as strong a case as veterinary surgeons for exemption from their having to put the formula on the label of a preparation which had been counter-prescribed. On the question of counter prescribing itself the Minister had said that he did not want to deprive the pharmacist of that right. Messrs. Power and Loughman had fought hard to secure exemption regarding the formula on the label but the Minister would not give way, although generally speaking he received the deputation in a favourable way.

Westmeath Pharmaceutical Federation

A letter was read from Mr. S. E. Fox (secretary, Westmeath Pharmaceutical Federation) in which he stated that at the autumn meeting of the Federation a discussion had taken place on the Animal Remedies Bill. “The members all desire to express their appreciation of the splendid efforts made by members of the Council (in particular Mr. Power) to protect the interests of the country pharmacists,” he wrote. “In that connection I was requested to advocate that the Council should give attention to a matter which our members feel is unjust, i.e., the holding responsible in law of a pharmacist for ill effects arising from the use of proprietary preparations, e.g. phenothiazine, etc. I fully realise there are many aspects to that whole question but nevertheless I would be grateful if you would bring the matter before the Council.” THE REGISTRAR pointed out that the right of a person to proceed against those who sold them a particular preparation was the normal legal procedure to enable a wronged person to seek redress. The same position existed under, for example, the Food and Drugs Act. The person proceeded against could in turn proceed against the original manufacturer.

[Remainder of report held over for reasons of space.]

LETTER TO A YOUNG PHARMACIST

A wholly admirable series of talks on the B.B.C.'s Third Programme, in the form of letters to young people embarking on a career, brought sage advice from such as composer and doctor. It was perhaps to be expected that pharmacy would not find a place in the series. Pharmacy seldom does. What form would the letter have taken if pharmacy had been one of the chosen? Perhaps the following:—

MY DEAR YOUNG GALEN,

You have, after three years at College, satisfied the examiners appointed by the Pharmaceutical Society. You have, during those three years, acquired a vast amount of knowledge in the subjects laid down, and you are now to put that knowledge to the practical test. For the Pharmaceutical Society, in its wisdom, has permitted you to proceed straight from school to college, and allowed you to pass its examinations without ever having set foot in a pharmacy. For the greybeards that seems extraordinary. Those same greybeards were once young, too, but they served an exacting apprenticeship to their calling, working long hours at a very tender age. Science has made great advances in the intervening years, and you have been absorbing the theory and some of the practice during your academic career. In that field you are well equipped. You have a knowledge of pH values. You can write the structural formula for most organic compounds. You can talk of antibiotics and their origin and effect. You know the "why" of emulsions. But now the Society which has examined you is asking you to do one more thing before it accepts you into its membership and opens to you that moment of bliss when you look up the Register and find your name there.

Practising Pharmacist has Much to Offer

The Society asks you to put in twelve months of practical training under the tutelage of a practising pharmacist, whose ability to write structural formulas may not now go much further than C_2H_5OH , or—lest you should take that as a slur on his attainments, CH_3COOH . He may even have a hazy notion of pH values. But do not despise him for his lack of knowledge in those fields. He has much to offer you out of his wealth of experience, and you would do well to listen to him and to watch him at work.

Shall I let you into a secret? He is just a little afraid of you and your learning. He may show a little impatience with your slowness, but in doing so he is partly putting on a protective armour. But don't for one moment imagine that, because he qualified on a less comprehensive syllabus thirty years ago, he doesn't know what he is doing. Watch his skilful and neat craftsmanship. Watch the confident manner in which he deciphers what looks indecipherable on a not-too-well-written prescription. Listen carefully to the quiet, sympathetic and helpful advice he gives to his customers. Take note of the respect in which he is held by people of all walks of life. He comes, as you do, of a long and honourable line of people who have dedicated themselves to an essential part of the art of healing.

Inevitably you will feel a little lost to begin with. You will, perhaps, be a little awed by the thought that the medicine you are preparing is "live" medicine now. It is going to be taken by somebody, not put down the sink. You will be faced with the need to concentrate on the job in hand, and to check everything carefully as you do it. The quiet confidence of your mentor has come out of long experience. He has seen the coming of changes he could never have dreamed of, but you will note that his early training and long years of work have enabled him to take things in his stride.

After your year of practical training you will have dis-

covered that you have learned a great deal. Your academic knowledge has been put to the test, and you are twice the man you were when you left the examination room. You have a respect for the old man who has had you in his care for twelve months, and he has learned something from you.

So now you are ready to go into the world. But don't imagine that your days of learning are over. You can't make a success of pharmacy, or any other profession, if you think you are now the complete practitioner. You must go on learning throughout your life. You will go to branch meetings, and meet the keener of your colleagues. Cultivate their acquaintance, for they are the best of your profession. Don't listen to any you meet outside who tell you it's no use going to branch meetings. They are those who think learning finished with the gaining of a certificate.

And when you go out entirely on your own, keep your ideals. Never be tempted by easy or cheap money. You have, after hard work and application, become a member of an honourable profession. You will find that dispensing is only a part of your future life. You will find you can't live by pure pharmacy alone. The happy day when pure pharmacy will suffice must be worked for. Until it arrives, show discrimination in the goods that you offer for sale. Never, on any account, be tempted to break any of the Pharmacy Acts, either in the letter or in the spirit. Only to do so once is to start on a slippery slope that sooner or later will bring you up with a shock. You will meet doctors and have occasion to discuss prescriptions with them. As a specialist in your own right you are well qualified to do so. Never invade the field which their training has made their own, but do not adopt an attitude of inferiority.

With a proper regard for ethics—I don't mean merely a Statement of Professional Conduct—bred in you by your training, your ideals, and the sacredness of your calling, you have in front of you a life of great interest and variety. Your responsibility is great, but no worthwhile career is without its share of responsibility. You are entering a noble profession at a good time. Use your utmost endeavour to leave it better than you found it.

JACOB BELL, JUN.

A PHARMACIST'S ANTHOLOGY INCURABLY HUMAN

From *The Kingdom*, by L. Macneice.

THESE are the people who know in their bones the answer
To the statesman's quiz and the false reformer's crude
Alternatives and ultimatums. These have eyes
And can see each other's goodness, do not need salvation
By whip, brochure, sterilisation or drugs,
Being incurably human; these are the catalytics
To break the inhuman into humanity; there are
The voices whose words, whether in code or in clear,
Are to the point and can be received apart from
The buzz or jargon. A part from the cranks, the timid,
The self-deceiving realist, the self-seeking
Altruist, the self-indulgent penitent,
Apart from all the frauds are these who have the courage
Of their own vision and their friends' good will
And have not lost their cosmic pride, responding
Both to the simple lyrics of blood and the architectonic
fugues of reason.

TALK ROUND A TABLE

SOME PROFESSIONAL FRIENDS COME TOGETHER. THE CONVERSATION FOCUSES ON . . . SOME ASPECTS OF HOSPITAL PHARMACY

"WHAT'S happened to Royce tonight?" asked Questin, lifting his coffee cup to be refilled. Questin, a portly man, was a proprietor pharmacist with several shops.

"He couldn't get here in time for dinner," said Jeannette Hyson. "He rang up to say he had a lot of work to do, so I asked him to come later for coffee and a drink." Jeannette, as wife of the doctor, often acted as hostess to his pharmacist friends.

"Unusual; he's never missed a dinner party at your house before, Mrs. Hyson," said Alleston, like Questin a retailer but very much a one-pharmacist-one-shop man.

"Probably short-staffed." Questin helped himself to a cigarette. "But I can always get qualifieds for my shops. I've never understood why able men want to go into hospital. . ."

The doorbell rang. "That's probably Royce now," said Dr. Hyson. "He'll answer you, Questin."

Hyson let Royce in, and they all settled into the comfortable easy chairs in the lounge.

"I'm sorry to be late," Royce apologised, "but we've been very busy at the hospital lately [Royce is chief at the East Anglian Hospital]. One of my chaps left recently to go into retail, and I haven't been able to replace him."

"How long have you been advertising the post?" asked Alleston.

"For about two months now. And it looks as if it's going to be another twenty-two before I get a reply."

"I'm surprised," said Questin, "I knew hospital pharmacists were in short supply, but I didn't think the position was that bad."

A "Friendly Hostility"

"You're too much wrapped up in your own affairs," said Royce. He had what might be called a friendly hostility towards Questin. "The position is becoming acute. It takes ages to get a suitable pharmacist for even the higher grades, let alone those who will start at £500 a year. We're employing enough dispensing assistants as it is. I'm not against them on principle, but a situation arises when they can't be supervised adequately, and the patient *might* then be exposed to danger."

"That's true," said Dr. Hyson. "Nobody would think of being treated by an unqualified 'doctor,' even though he had been through the training, but a patient's medicine can be dispensed by an unqualified member of the staff. It is at the least essential to ensure that there is adequate supervision."

Alleston began to fill his pipe. "I've had people coming into the shop lately with scripts from the local hospital. They are forced to send out some of their out-patient dispensary work to pharmacies in the town."

"Is that a bad thing?" asked Questin.

"Not necessarily, but to my mind the hospital should be a self-contained unit. People shouldn't have to be sent round the district: the prescriptions should be dealt with on the spot. And, apart from out-patients, how about people who are actually in hospital? What is going to happen if the shortage of pharmacists becomes so acute that medicine can't be supplied to the wards?"



"That's an excessively black picture, isn't it?" asked Mrs. Hyson.

"Perhaps," said Alleston, "but sections of some hospital pharmacy departments have been closed because of staff shortage."

Questin, who had been listening thoughtfully, said: "If I was a newly qualified pharmacist, I've no doubt what field I should choose. When you're setting out in life the need for money is at its greatest. You probably want to get married, have a family, and start buying a house. It's far easier to do those things on the £800 a year you can start at in retail than the £500 you'd get in hospital. I wouldn't go into hospital pharmacy."

"But against that the pharmacist in the hospital is more of a professional man," said Royce.

"Possibly. But doesn't he have to pay for it? To me the price is too great."

"I thought you'd say that, Questin. To some, fortunately, it isn't."

Questin shrugged, but said nothing.

Hyson asked: "How would you set about getting more recruits, Royce?"

"Obviously, put the salaries up for a start. Make them comparable with those paid in retail. Secondly, make hospital pharmacy more of a career. Make the top jobs really well paid, and also carrying much responsibility. When a young man enters industry the sky's the limit. If he has ability and ambition enough his final salary can be huge. In hospital practice he can see the goal too easily, and the goal may not appear to be worth attaining. A young man in retail can be paid more than a chief pharmacist in hospital. If the present seepage of hospital pharmacists goes on there will be a decline in standards, and the patient will suffer in the end."

"You're right, Royce," said Alleston, "we must have reasonable salary scales for hospital pharmacists. The small pay increases that have been awarded hardly keep up with the rising cost of living."

"I've always thought," Dr. Hyson said with a smile, "that the whole trouble of belonging to a profession is that you can't come out on strike like a trade unionist. Apparently honour nowadays must go with small pay!"

"We should be paid fairly for the amount of work involved," said Royce.

Differences in Working Hours

"There's an old adage, you know, 'big pay for big work.' You have to work longer hours in retail," Questin paused to consider, "as many as forty-eight a week in some cases, while in hospital you work only thirty-eight. So in saying you should put hospital pharmacists' salaries up to £800 a year you are not right to begin with."

"I don't agree," said Royce, "we're the same profes-

sion, and we should have the same pay. We have equal obligations to the public, perhaps more. Apart from taking good care of the quality of drugs we make many of our own galenicals, which retailers today seldom do. In teaching hospitals especially, we help to develop new methods of treatment, investigate new medicaments, do a certain amount of original pharmaceutical research, and help in the training of students and nurses. Although retailers are seen to provide the public with their medicinal requirements, we serve them in a way that isn't so obvious but is just as important. We should have reasonable pay for doing that."

"I've been doing some sums about salaries," said Mrs. Hyson. Her husband grinned but said nothing. "Judging by Mr. Questin's figures on the hours worked, if a man in retail got £800 a year, then one in hospital should get £630, that is if the basis was to be equal pay for equal work."

"A sound feminine principle," laughed her husband. "But perhaps you're right, dear. The fairest equilibration should be on hours worked. You can say that for a young man to decide to undertake more professional work costs him £130 a year, the difference between his starting salary and £630."

"Knowing Questin and his slave-driving tactics," said Royce, "I should say he's probably over-estimated the hours worked generally in retail, so that the £630 should be higher."

"Small pay or not, it's far better than what pharmacists were paid in the 1930's. There's a shortage of pharmacists at the moment, and lately we haven't had to go round begging for jobs," said Questin.

"Whilst it's a good thing that the profession isn't overcrowded, the shortage is not without some bad results," said Alleston. "If the hospital salaries are put up so as to be on a par with retail, quite a number of pharmacists in retail who don't own their own businesses, or who want to do more professional work, are going to go into hospital practice. So some sort of shortage will develop in retail. Retail pay will then probably go up to attract more pharmacists, and the present position will be recreated to some extent."

"There seem to me to be, on the basis of our talk," said Royce, "two answers to the disappearing hospital pharmacist. Put up the basic pay, and at the same time increase the opportunity of advancing to more responsible and better-paid positions."

HOMO SAPIENS

V A R .

Pharmacist 1956

THE attendant blinked, donned his glasses, then blinked again. Exhibit 101 had moved. In all his twenty-five years at the museum he had never known the like. A specimen alive! He glanced quickly at Exhibit 100, a reconstructed burial chamber of the Pharaohs, resplendent with mummy, face peeping from behind 4-in. White Open Wove. Not a stir.

But there was no doubt about 101. It was sitting up rubbing its eyes and knocking on the glass case. Or had it become a he? A voice chanted deeply "consists of the dried leaves of *Digitalis purpurea*, rapidly dried at a temperature not exceeding 60 degrees as soon as possible after collection."

The attendant, of a scientific turn of mind, repeated the wording. Secrets of the past revealed, he thought—the incantations, the formulae, the magic words that led men into the perfumed temples of the gods! Quickly he opened the case, allowing the specimen to join him on the floor of the building. 101 seemed not the least perturbed.

"Most certainly Tinnevelly," he was saying. "The bale markings are quite clear—A pass, a pass. . . I've passed," he exclaimed, then suddenly showed every evidence of feeling foolish. For he saw for the first time that he had been classified—quite neatly, quite correctly, he noted—a terse *Homo sapiens*, bracketed beneath which were the words "Pharmacist 1956."

It was like a stomach punch. 101 gasped.

"What day is it?" he asked.

"Monday."

"Monday? And well on into the morning. There'll be a queue at the shop. I must hurry," he said.

"I think not," replied the attendant. "It's Monday, but it's A.D. 2056. You've been asleep a hundred years. You've outdone Rip."

"Oh dear, oh dear," exclaimed 101, "now my December scripts will never be priced."

"I expect you'll have bigger worries than that," interrupted a cultured voice. The curator of the museum, disturbed by the commotion, had joined his senior attendant.

The word had, in fact, soon gone round that something unusual was afoot. A crowd gathered, dense and noisy. In the forefront were the Press. 101 was perfectly frank, though what he said they found it none too easy to understand. He'd volunteered for a deep-freeze experiment following the introduction of the shilling-per-item levy and the increased price of petrol. He must have gone into suspended animation and outlived his experimenters, and that he attributed to a muscle relaxant administered after a hectic evening's dispensing on rota.

In their turn his hosts were equally communicative and equally puzzling. They revealed to him the secrets of the nation with a naivety previously reserved for the Russian scientists on their visit to Harwell.

Since he had gone into hibernation, they told him, Belladonia had narrowly escaped self-destruction. The cause was a synthetic dyestuff introduced to colour official pills and tablets. The dye had turned the populace colour blind so that highly potent tablets, coloured red, appeared dressed, like the innocuous drugs, in a beautiful emerald green.

Thousands had died. An enemy, inspired by the discovery, had engaged in a colour war. East and west had battled in extreme effectiveness at a ridiculously low cost. The multi-coloured armaments produced by the manufacturing chemists outshone the Technicolor of Hollywood. Tablet coaters became figures of national importance. The newspapers featured their prodigious efforts, as gross after gross of "best possible" coated spheres came off the machines.

After that the rest was easy. One nation spread its own particular shade of poison around a capital city to find itself, in turn, the object of retaliation from gross after

gross of mauve "miracle" or violet "viruliser" pills circulated *en masse* by their opponents. Nobody knew which would keep alive and which would kill. Health authorities panicked and confusion was universal until the superior genius of the Belladonians brought victory. They made medicaments official only in liquid form. A rescued and grateful populace took up marbles and played with death in the gutters, knuckling the enemy's latest colour with such aplomb that new and more stringent rules had to be introduced by the national marbles association.

Meanwhile the scientists had been busy. In formulation experiments on liquid medicaments, they had discovered the Elixir of Life—not the Eldorado of the alchemists but a modern marvel, revolutionary in that it outdated food. 101 learned with particular interest the effect on his own calling, which was that the pharmacy course in Belladonia had been revised. Polythene plumbing had taken pride of place in the syllabus in view of its importance in conveying liquid food and medicine *via* a unique pipe system direct to the citizens. Pharmacists, by virtue of their training and commercial skill, became masters of the situation. Overnight they became millionaires. The Belladonian National Health Service established a complete ascendancy over the catering industry. An ace card—an alcoholic spray—altered even the nomenclature of the Service to National Wealth Service.

Taps hissed and gurgled. Alcoholic fluids flowed in Cornucopian abundance as the sumptuous feast, purveyed in sterile tubes under aseptic conditions, proceeded from the Ministry of Wealth.

101, his mind long since freed from the spectres of scripts not sent for pricing, tests not passed, ethical stan-

dards unwittingly broken, came in for the benefits of the advance made since his loss of consciousness! He was taken as honoured guest to the annual banquet of the Minister. But a shock was in store for the diners. The Minister, rising to make his annual report, was pale and gaunt. His opening words brought tense silence.

"Gentlemen," he said, "we have been outwitted. Private enterprise has caught us napping. Through their private taplines they are sending out a "flavour of the month" that has cut our sales of national elixir by half. Our soporifics are down by 30 per cent. And our alcoholic aromatic—once a best seller—has tumbled by 80 per cent. To meet the challenge, and to cut losses, I am imposing a charge of one shilling per unit on each delivery from nationalised taps. "A bob a nob!" exclaimed 101. "This is where I came in."

As he said it the lights fused and confusion reigned. When order was restored Pharmacist 1956 was nowhere to be seen. Search was made high and low, in the diplomatic dispensaries, in the scented streets, even in the balmy courts of the bathing belles, everywhere. 101 had vanished without trace. . . .

Back at the museum the attendant blinked, donned his glasses, then blinked again. He had not been to the Minister's banquet. He was quite, quite sober. Or was he? Something attracted him back to where, only a few brief hours previously, he had helped Exhibit 101 from its glass case.

There, as if to prove him dreaming, was Exhibit 101—as large as life, but as still as death. Throughout the museum everything—everything—was as it had always been.

"Well, I never!" said the attendant.

Greetings from the Great

SOME OF THE CHRISTMAS CARD MESSAGES THAT MAY BE RECEIVED THIS YEAR

COME dwell upon a loftier plane,
And never be pushed off it.
My Christmas wish is moral gain
(And never mind the profit).

F. W. Odoms

THE season's upon us
Of peace and goodwill-ing.
But here's a reminder—
Collect every shilling.

Rt. Hon. R. H. Tartan

IN excelsis Gloria
Et in terra Mycin.

Ches. P. Pfezor

MY woes are nearly at an end.
My greetings now I'm sending.
My final leader's almost penned,
And quieter pastures pending.

Wully K. Futch

THE tumult and the shooting dies
The I.R.A. and things depart,
Out goes my Christmas card at last
Unpunched, but bearing all my heart.

C. A. Quonn, Belfast

FROM the shores of Manitoba,
Bowed with honours, rich with letters,
Limp with 2,087 handshakes
Tired from 28 full meetings,
Home again I send my greetings,
Canuck chemists, Britons, Putney!

Pardon me. A wire! From Tony:
"Back from Goldeneye, Jamaica."

*Sir High St. N. Lenstaidd, Hon. LL.D
(B.C.), F.P.S., O.B.E., M.P.*

I'LL try for you,
I'll cry for you.
How can I get more pie for you?

G. H. M. Gruhum

A CUTTER deals? Strange parlour
game!

Do but appeal: P.A.T.A.'ll flay 'im.
Ay Chee Chop Min

APOTHEKERS of the world unite,
All join hands round the Christmas
tree!

*Fröhliche Weihnachten! Greeting!
Bon Noël! to the F.I.P.*

D. W. Hadsen

BRUM chemists, won't you sing my
praise?

I'll mention vitamins never!
Private I'll keep my drug assays
Within my house for ever.

H. T. Bignill

WARM is the heart I'd be sending ye all,
Eireann McGrath, McGrath!

Sure how would I do it at all, at all,
Me that was Chairman in Dublin last
Fall,

For didn't me heart stay in U.C.H. hall?
Eireann McGrath, McGrath!

Professor Belloc

FELLOW Scots, for you I'm greetin'—
Canny that ye are, and close!
Will ye tak' an English beatin'?
Meaner be than such as those?
Hoots, mon! Dip intae your sporran!
Bawbees find for luckless frien's
Show them that the Caledonian
Is bursting with Benevolence.

W. E. Perks, Aberdeen



DRUGS FOR REFUGEES: Red Cross women helpers working by floodlight to unload a consignment of 500,000 analgesic tablets donated by a British manufacturer for the relief of distress among Hungarian refugees.

A Collector's Year

BEING A RECENT YEAR IN THE EXPERIENCE OF A PROVINCIAL COLLECTOR OF PHARMACEUTICAL ANTIQUES

January 10: At 8.45 a.m. my old friend (and dealer) in London, Mr. Merryman, rings up to say he has acquired an early English drug jar with the rather rare "pipe-smoking man" decoration. He offers it at a price rather beyond my means. Though much tempted, regretfully say "No." Reflect that having to refuse the jar seems a poor start for the New Year!

February 8: Present at a South Coast resort last night for a Branch dinner, my wife and I go round the shops this morning, she with an eye for what is new—in clothes, bless her!—and I for what is old. With great good fortune I find a shop with a large selection of pot lids, some bearing pictures of the Prince Consort, others entitled "Village Wedding," "Uncle Toby." Among them are a couple of the early bear's grease lids, which I buy.

At home this evening my wife and I examine them more closely. One bears the picture of a man shooting bears and is encircled with the wording "Ross and Sons, Genuine Bear's Grease, Perfumed, 120 Bishopsgate Street, London"; the other shows boys pelting a tame bear with snowballs, and has the legend, "Alas, poor Bruin." The painting is colourful and the details most minutely drawn.

February 28: Passing a small antique shop this lunch time I drop in and ask the usual question: "Anything for me to-day?" Says the proprietor: "Yes, I've got something you'll like." He produces a Daffy's elixir bottle of the early nineteenth century. For a small sum it changes hands, for the bottles are hard to come by today, though untold quantities of the product must have been sold over the years. This particular one bears the wording: "True Daffy's Elixir" and, on the other side, "John Wye, late partner with Dicey & Co., No. 10 Bow Church Yard, London." John Wye evidently split off from Dicey's at some time, but I have not been able to trace him so far. Dicey's were succeeded by W. Sutton & Co., Ltd., and still made a Daffy's elixir as late as the beginning of the present century.

March 12: In London to-day, and with an hour to spare, I drop in again on Mr. Merryman, and am pleased to find he still has the "pipe-smoker" jar unsold. What pleasure

there is in handling it—even though it cannot be mine. But presently he offers to lower his price and, of course, I fall for that and buy it! Consider it a treasure, for the design was produced (at Lambeth) for only ten years or so (1650-60). The wording is intriguing: "Syr. Chico c Rha," or syrup of chicory (succory) with rhubarb, a purging syrup described in the early London Pharmacopœias, its many vegetable ingredients sounding like a veritable salad. An odd feature of the jar is the figure 200 in the o of Chico. I wonder what that means!

May 23: In London again for two or three days, my wife and I wander round the antique shops in the side streets of Kensington. Find a mid-eighteenth century syrup jar in Liverpool delft, with traditional "bird and basket" design in hazy blue, and the inscription "Ox. Scillit." Couldn't resist buying it for, though my collection already includes several pieces of Lambeth and Bristol delft, Liverpool so far has not been represented. Interesting to compare the glaze and painting of the various potteries and try to get them sorted out. Some difficulty here. Even the experts don't always agree. The spout of the newly acquired jar seems placed rather low, suggesting that the jar could seldom ever have been more than half filled.

June 20: A lucky find to-day, and in my own town, too—a handsome old Flemish bell-metal mortar, 8 in. across and 6 in. deep, with two handles, and having a band of decoration round the waist. Round the rim are the words: "Heinrick ter horst me fecit anno 1607." One wonders where it has been all these years. By what devious routes did it end up, inverted, in the sale-room as—so the dealer tells me—a ship's bell? To polish, or not to polish, that's the question. Some prefer to leave such mortars to acquire a greenish patina; others like them bright and shining. Will decide later.

August Bank Holiday: Picnicking in the country to-day we return through the little Sussex town of M... and stop at "The Old Bell, Antiques." There, set well back in the shop is a Victorian honey jar, about a foot high, magnificent in maroon and gold. The shop is closed and we can do nothing about it, but resolve to 'phone to-morrow.

Tuesday: Telephoning shows the price not unreasonable, but the dealer refuses send the jar. I send a cheque and tell him to keep the jar till I call.

August 19: Collect the honey jar. Very handsome it proves, and in perfect condition save for a little rub on the glaze at the side of the foot, where it has evidently been handled when repeatedly lifted down from a high shelf. What a lot of honey the Victorian chemist must have used. The capacity of this jar is 8-10 lb.

September 4: A letter arrives from a dealer I have never heard of. How did he hear of me? He offers me a pair of decorated seventeenth-century Italian syrup jars from the Castelli potteries. They sound sufficiently interesting and I ask for them to be sent down on approval.

That is really a foolish move, for only once have I sent back a drug jar brought to my notice in that way. How well the dealer knows the average collector!

A Week Later: The two Castelli jars arrive to-day in a case big enough to hold a dozen! Of course I keep them. They go on the piano top where all new finds rest for a day or two, to be admired, handled and fondled in a way all collectors will understand. The jars bear the names Syr. D Pulmonibus and Syr. D Scorbo and are decorated with floral wreaths and a coat of arms (star, flag and tortoise, surmounted by a helmet and having the words *Festina Lente*).

October 14: My birthday. Am delighted to find that my wife, who indulges all my foibles, has bought me an old mahogany medicine cabinet, date about 1800. A most welcome gift. Complete with hand balance, squat glass pestle and mortar, medicine glasses with silver covers, and the usual assortment of glass-stoppered bottles, both wide and narrow necked, it lacks, unfortunately, the old labels. Somebody has been too tidy. They might have thrown light on the origin of the cabinet.

October 3: On holiday in Cornwall. How few and far between are the antique shops here. But I find a seventeenth-century Italian oil jar in the little town of Trepolpen. It has the striped decoration associated with the Piedmont potteries. The wording is Oel. Cherini, and inside the jar is a letter (now some years old) from the director of one of the

museums giving the meaning as oil from a variety of *Cheiranthus cheiri*, the common wallflower. The oil was certainly used in the Middle Ages, and as far back as the 10th century, for wind and various nervous affections. The colouring, in spite of much crazing and dulling, is really charming.

November 7: To-day I buy a lovely Delft drug jar complete with its pottery lid—so few seem to have their

original lids—for E. Populeum (or extract of poplar buds). The blue decoration is the one most frequently met with on Dutch jars. It consists of two peacocks, a basket of fruit, cherub's head, etc. The jar is in excellent condition, apart from a little crazing in the glaze. It bears the well-known mark of The Three Bells Pottery.

December 20: From London, by post, comes a seventeenth-century English

jar from the Lambeth potteries. It carries the well-known angel design, and is worded E. Lenet (our old friend confection of senna). The big-gish jar is in good condition save for a small chip on the collar. Is there perhaps a connection between the angel and the Apollo in the arms of the Society of Apothecaries?

December 31: A satisfactory year on the whole. For the New Year resolve to concentrate more on English jars.

Queer Customers

MEMORIES OF SOME TYPES SELDOM SEEN TODAY

LOOKING back, it seems to me that there were more odd characters at large fifty years ago than there are today. Can it be that the Welfare State, which begins to mould its citizens even before they have seen the light of day, has achieved a mass production of almost identical human beings?

Certainly some very queer customers presented themselves at the counter of the pharmacy where I served my apprenticeship. That was in the first decade of the century. They were not often *good* customers in the sense that they spent lots of money; but they did bring a savour of eccentricity to the meat of routine jobs.

Perhaps my boss was a magnet attracting oddities to the village pharmacy, for he was invariably kind and patient in his dealings with "characters." He suffered fools gladly, holding, I suppose, the old-fashioned notion that wisdom might be learned from them. At any rate, the odder they were the better he liked them and the more he encouraged them to talk.

Take Mrs. Pining, for instance. Who but old Scruples (as we 'prentices called our master) would have put up with her continual grumbles? Widowed at fifty, Mrs. Pining was in the time I write of well into the eighties. She lived alone in a dilapidated wattle-and-daub cottage with a thatched roof that housed a multitude of sparrows. Of her two sons one died of typhus at the siege of Ladysmith, the other had vanished into the void of Australia. Her married daughter, deserted by her husband, had in turn deserted her mother. All her other relatives had gone to their graves.

"The Lord's forgotten me," she would say mournfully, pulling her shawl more tightly around her spare shoulders. "E's taken my all an' forgotten me."

"Nonsense!" shouted Scruples in reply (deafness was one of her many afflictions). "He's saving up lots of good things for you—keeping you here a bit longer while your mansion in heaven is being painted and decorated."

"Me? In a mansion?" Mrs. Pining came as near to a chuckle as she ever did. "Two up an' two down is all I want—so long as there's no dust nor spiders." And she would go away comforted, at any rate for a time.

Then there was Miss Springer, always running errands for other people but taking little notice of their instructions and never quite sure what she wanted. Once, I remember, I referred her to the boss when she asked me for "Two pennorth of doo."

"What might that be for?"

"For my sister's baby. Doo—three pennorth. It comes down from heaven. In the night," she added vaguely.

"What's wrong with baby?" The answer, laconically given, was "Costive." Old Scruples pondered for a minute.

"I know what you want," he said at last. "Manna."

"Yes, mamma of course." Miss Springer gave a little shriek of delight. "I knew it was something that came down from heaven, and I thought it was doo."

Every morning old Bollom called for his "tupenny pick-me-up." He was massive, bearded, broad in the beam, a

barge of a man (he had indeed worked on the barges before the railway knocked out the water-borne traffic on the Fen lodes) with wide-open innocent blue eyes. He talked incessantly in a despairing voice. As a result of sudden conversion at a revivalist meeting he had—never doing anything by halves—exchanged swearing and wantonness for religious mania. And the boss had only to ask after his health to let loose the whole bag of tricks that tumbled about in his poor addled pate.

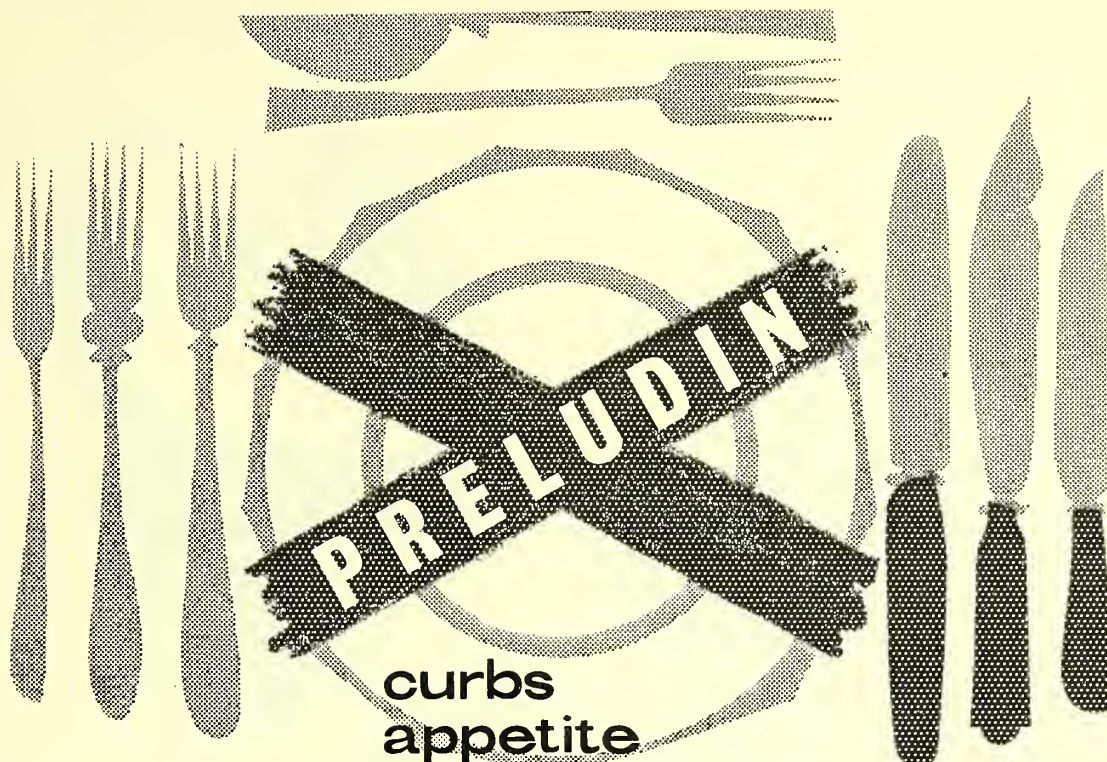
"I've prayed for Light," he would say, speaking rapidly and earnestly, "an' had a quick sponge down in me hip-bath, an' cooked meself a bit o' fish, but O me nose is like a tap that you can't turn off. If only I could be *sure* that I was really an' truly saved an' could stop flying in the face o' the Almighty—"

Some of our customers were not only queer, they were terrifying. One little old woman, bent nearly double, her nose not so very far from her knees, used to stretch out a bony claw cased in parchment for a daily dose of opium. She still haunts my dreams, although, along with the little blue jar containing the lump of dried poppy juice from which I used to weigh her daily drachm, she has long disappeared from the earth. Gone, too, is the bearded man with rolling eyes, dressed in the sleeved waistcoat and green corduroys worn by the railway porters of the period, who used to call fiercely for an ounce of laudanum and drink it off at the counter with the nonchalance of a toper swigging a peg.

Perhaps what made people queer fifty years ago was deep poverty and the stresses of life in the England of the period. If so, ought we to complain when the insured person, cushioned against the worst blows of sickness and penury, may seem in the ordinary intercourse of daily life a trifle commonplace?



Gilray's cartoon on Perkin's "metallic tractors." The tractors were supposed to apply galvanic action to the relief of pain and disease (in this instance a red nose). Cartoon in possession of the Pharmaceutical Society.



in cases of obesity

**curbs
appetite
without
affecting
the
heart**

PRELUDIN is the doctor's powerful ally where weight reduction and adherence to diet are an essential part of the treatment. It is perfectly safe for cardiovascular conditions, and has no effect on blood pressure.

It is supplied in 25 mg. tablets, in tubes of 20 or bottles of 250.

PRELUDIN*

Brand of 2-phenyl-3-methyl-tetrahydro-1,4-oxazine-hydrochloride

The appetite controlling agent that does not affect the heart



Manufactured and distributed in England by Pfizer Ltd., Folkestone, Kent, for
C. H. Boehringer Sohn, Ingelheim am Rhein
Registered proprietors of the Trade Mark *Regd. Trade Mark

**A single dusting
does the job!**



GET RID OF LICE on livestock—swiftly, efficiently and safely—with 'Gammexane' Louse Powder. A single dusting not only destroys lice and other troublesome skin parasites on the animal, but because it contains gamma BHC this louse powder is so highly persistent that it continues to act for at least two weeks, thus effectively preventing re-infestation.

'Gammexane'

Trade Mark

LOUSE POWDER

KEEPS PIGS COMFORTABLE TOO!

In handy sprinkler tins, retail price 6/6d., also large refill containers, 18/6d. Literature and showcards available on request.



A product of Imperial Chemical Industries Limited. Distributed by
IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED, WILMSLOW, CHESHIRE
Ph.B206/T/1



MOLECULAR STRUCTURE OF INSULIN

Fifty-one amino acids placed in sequence

SOMETHING in the nature of an ovation acknowledged the importance and ingenuity of work described by DR. F. SANGER (department of chemistry, University of Cambridge) in a lecture, "The Chemistry of Insulin" given before the fine chemicals group of the Society of Chemical Industry in London recently, Dr. B. A. Hems (group chairman) presiding.

Proteins are probably the most fundamental components of all living matter, so that a knowledge of their structure would seem to be a pre-requisite to an understanding of the normal chemical activities of an organism. Their great size and complexity has made it difficult in the past to obtain information about their detailed chemical structure and only with the introduction of the new methods of fractionation, such as paper chromatography and ionophoresis, has it been possible to deduce the chemical formula for one of the simplest proteins: insulin. Insulin has a molecular weight of 5700, and contains fifty-one amino acids. As a preliminary to determining the relative arrangement of those residues, Dr. Sanger said that a method (the DNP method) had first been developed for the identification of the terminal residues of polypeptide chains. It was shown that insulin is built up of two chains, in which glycine and phenylalanine are the two terminal amino-acid residues. The two chains are joined by the disulphide bridges of three cystine residues, which can be broken by oxidation with performic acid. The two chains were thus obtained separately. The glycyl (A) chain contained twenty-one amino-acids, none of which were basic, and the phenylalanyl chain had thirty residues.

Fractionation of Peptide Structures

Each chain was then subjected to partial hydrolysis by acid and by enzymes. The resulting complex mixtures of peptides were fractionated by paper chromatography and ionophoresis. The peptides were analysed for their constituent amino acids, and their terminal residues were determined; some were subjected to further partial hydrolysis. From the results it was possible to deduce the amino-acid sequence in the two chains and the position of the three disulphide bridges was determined by studying peptides of cystine from a partial hydrolysate of unoxidised insulin. Two bridges were ascertained to join the A and B chains, and there was an intrachain bridge in the A chain.

In reply to DR. G. E. FOSTER, DR. SANGER said that, while zinc was probably not essential for the activity of insulin, there was a suggestion that it conjugates with histidine residues, possibly giving rise to polymeric forms of insulin. DR. H. J. BARBER, who asked if a Zn-S link could occur, and DR. W. MITCHELL, who asked if such a bond could form an intermolecular link, were told that acid hydrolysis does not cleave the cystine bridge, and that such an intermolecular bond would not agree with the results obtained from analysis in a Craig apparatus, nor with

the observed molecular weight of 5700. A question on the species specificity of insulin evoked the reply that in cattle, pigs, horses, sheep and whales, the phenylalanyl chains are identical, but in the glycyl chain the three amino acids inside the disulphide bridge differed from species to species. At Cambridge no evidence of transpeptidation during hydrolysis of the peptide chains had been detected.

Isotopes in Biochemistry

At a joint meeting of the group with the Society's microbiological group recently, Professor A. Neuberger, F.R.S. (St. Mary's Hospital Medical School) described "Some Uses of Isotopes in Biochemistry."

In the past ten to fifteen years, he said, isotopes have been used to elucidate the mechanism of enzyme reactions, much in the way tracers have been used in organic chemistry. Ex-

periments in which hydrogen peroxide, one of the products of oxidation of glucose by a mould oxidase was analysed, showed that the oxygen molecule acted as a hydrogen acceptor. Professor Neuberger discussed other aspects of the oxidation of glucose, particularly the effect that, in the oxidation of gluconic acid, the first product was not the free acid but the o-lactone, showing that, in the step catalysed by the enzyme, no change takes place in the ring structure. Deuterium has been used, he said, to great effect in the past few years in successful attempts to elucidate the function of pyridine nucleotides in enzymic reactions.

In the second half of his lecture Professor Neuberger discussed the use of isotopes in elucidating the biogenesis of groups of compounds, in particular recent work on the biosynthesis of porphyrine.

NORTHERN IRELAND HEALTH BOARD

Ruling against pharmacy and surgery in same building

THE Northern Ireland General Health Services Board meeting in Belfast recently, rejected an application for permission to open a pharmacy in the same building as a surgery. MR. G. D. STEWART (secretary) said the Pharmaceutical Advisory Committee had been against the granting of the application which had been made by a Belfast chemist wishing to open a branch shop. The secretary added that there was a regulation in the doctors' terms of service which provided that they should not have a surgery in a building occupied by a chemist. MR. J. P. DUFF (chairman) had previously welcomed Mr. W. H. Boyd, who succeeded Mr. H. W. Gamble.

Dispensing Doctors' Prescribing

The following list of appliances can now be prescribed by dispensing doctors for supply by chemists:—Atomisers (hand-operated); breast relievers; catheters (urethral) and lubricant; colostomy belts and parts (for repair and replacement only); douches (with rectal and vaginal fittings), specification: two-pint enamelled steel container, glass or vulcanite fittings and six-feet of rubber tubing with rolled ends; elastic stockings, kneecaps, anklets, thigh pieces, leggings, knee stockings, knee leggings, thigh stockings, thigh leggings, thigh kneecaps; hypodermic syringes and needles (for self administration); ice bags; inhalers (a), earthenware (Nelson) 1 pint, (b), Burney Yeol; sputum flasks, specification: blue glass, graduated in half-ounces up to 3½ oz., burnished aluminium top fitted with rubber wad; suprapubic belts and parts (for repair and replacement only); trusses (femoral, inguinal, scrotal, umbilical); urinals (portable, rubber); urine sugar analysis set; vaporisers, specification: metal constructed heated by night light (six night lights to be supplied).

At a meeting of the Board's special committee THE SECRETARY submitted

tracings showing in detail the disposition of the dispensing and prescribing patients on the lists of thirteen dispensing doctors. The committee decided that, *prima facie*, the Board was not justified in requiring a dispensing doctor to dispense for patients residing within a radius of two miles of a pharmacy in "townlands," and thought it doubtful if the Board was justified in requiring a dispensing doctor to dispense for patients residing within half a mile of a reasonably served bus route. The committee thought that it would be hard also to justify dispensing for patients who lived adjacent to prescribing patients. The secretary reported to the committee that on July 31 the names of 2,382 patients had been removed as instructed from the dispensing list of one doctor, who had appealed regarding 652 of those patients. The committee decided that the Board should adhere to its previous decision with the exception of twenty-seven patients who had since moved outside the limits fixed by the Board. The secretary stated that the chemist who had initially raised the question of the doctor's dispensing had inquired if the Board had yet decided whether or not to transfer any of the doctor's patients from dispensing to prescribing. During the month of August he had received only twenty-eight of the doctor's prescriptions—all of them for excluded list items. The committee agreed that the medical adviser should visit the doctor.

Irregular Issue of PS7 Forms

The secretary reported to the executive committee a case in which a chemist had provided a patient irregularly with a number of P.S.7 forms. The patient had endeavoured to obtain money on those from the National Assistance Board. The committee decided that, in the circumstances of the case, no further action should be taken against the chemist by the Board.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, DECEMBER 18: The pre-Christmas lull continued in the CRUDE DRUGS market during the week with prices mainly held at existing levels. PHARMACEUTICAL CHEMICALS were in routine demand and a number of price changes were made by manufacturers.

ANÆSTHETIC ETHER was reduced by eightpence or ninepence per lb. according to quantity but the TECHNICAL grades were unchanged. ZINC OXIDE failed to hold its £5 per ton advance on the previous week and reverted to the price at which it has stood for most of the year. OLEIC and STEARIC ACIDS have been advanced £8 per ton and LANOLIN is expected to rise by £10 per ton in January. One of the principal manufacturers has issued new schedules for the larger buyers of OPIATES, the prices of smaller lots to the retail trade are unchanged.

MENTHOL was quiet with forward supplies of Chinese only offering by second-hand sellers.

During November some 136 tons of SENNA were shipped from Tuticorin. The destinations and quantities are given below:—

	U.K.	U.S.	CONTINENT
SENNA	Tons	Tons	Tons
LEAVES ..	10	60*	41
PODS ..	2	1	22†

* Includes 38 tons shipped to Buenos Aires.

† Includes 2 tons shipped to Hamburg.

LIME OIL was again dearer but PEPPERMINT and CITRONELLA were virtually unchanged. One large supplier of British DILL and CUBEB OILS has temporarily withdrawn his prices.

Pharmaceutical Chemicals

ANTIMONY SALTS.—Quotations for POTASSIUM TARTRATE, B.P., are 7s. 6d. per lb. for 1-10 cwt. and SODIUM TARTRATE, B.P., 13s. 3d.

BENZAMINE.—In 16-oz. lots LACTATE is 15s. 3d. per oz. and HYDROCHLORIDE, 16s. 3d. per oz.

BENZOIC ACID.—1-cwt. lots are 2s. 11½d. per lb.; the SODIUM SALT is 2s. 9½d. per lb. in 1-cwt. lots.

BISMUTH SALTS.—The following are the prices (per lb.) in largest bulk packages:—grade are 4s. 6d. per lb.

	28 lb. to 1-cwt.	1-cwt.	5-cwt.
	s. d.	s. d.	s. d.
CARBONATE ..	22 3	21 9	21 4
SALICYLATE ..	21 9	21 4	20 10
SUBGALLATE ..	21 1	20 8	20 2
SUBNITRATE ..	20 5	20 0	19 6

The 1-cwt. rates (per lb.) for other salts are:—CITRATE, B.P.C., 22s. 8d.; NITRATE, crystal, 14s. 8d.; OXIDE, B.P.C., 27s. 7d.; OXYCHLORIDE, B.P., 27s. 9d.; OXYIODOGALLATE, B.P.C., 28s. 9d. and TRIBROMOPHENATE, B.P.C., 26s. 9d.

CHLOROFORM.—1-cwt. lots in winchesters are 3s. 6d. per lb.; 56-lb., 3s. 6½d. In drums, prices are 3s. 4d. and 3s. 4½d. per lb. respectively.

ERGOMETRINE. — For 20-gm. lots the price of the MALEATE, B.P. is £21 10s. per gm., and the TARTRATE, £20 per gm.

ETHER. — Prices (per lb.) in winchesters:—TECHNICAL, B.S.S. and SOLVENT, 5-cwt., 2s. 5d.; 10-cwt., 2s. 4d. ANÆSTHETIC, B.P., 5-cwt., 3s. 2d.; 10-cwt., 3s. In drums prices are 4d. less than above.

GLYCEROPHOSPHATES.—Rates per lb. for 1-cwt. lots are as follows:—ACID, B.P.C., 20 per cent., 5s. 9d., CALCIUM, soluble

B.P.C., 11s. 9d.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MANGANESE, soluble, B.P.C., 14s. 3d., and insoluble, 7s. 6d.; MANGANESE, B.P.C., 26s. 3d.; POTASSIUM, 50 per cent., B.P.C., 3s. 9d. and 75 per cent., B.P.C., 5s. 6d.; SODIUM, 50 per cent., B.P.C., 3s. 1d. and 75 per cent., B.P.C., 4s. 6d.

GLYCERIN.—Rates for pharmaceutically pure are as follows:—

Annual purchases or spot lots of	Under 1-cwt.	1-cwt. and under 5-cwt.	5-cwt. and under 1-ton	1 ton and under 5 tons	5 tons and under 25 tons
Per cwt. fms	s. d.	s. d.	s. d.	s. d.	s. d.
14-lb.	241 0	236 6	232 6	228 0	225 6
28-lb.	239 0	234 6	230 6	226 0	223 6
56-lb.	235 0	230 6	226 0	222 0	219 6
DRUMS					
1-cwt.	—	214 6	210 6	206 0	204 6
2½-cwt.	—	211 6	208 0	203 6	202 0
5-cwt.	—	—	207 6	203 0	201 6
10-cwt.	—	—	206 6	202 6	201 0

For 25 tons and upwards the price is from 200s. to 225s. 6d. as to containers. Bulk deliveries in tank wagons from 197s. 6d. to 198s. 6d. Pale straw industrial glycerin, s.g. 1.260, is 5s. per cwt. less than the above.

GUAIACOLS. — LIQUID, B.P. is 16s. 3d. per lb. for 28-lb. lots; CRYSTALS, 16s. 9d.; CARBONATE, 18s. 3d.

HOMATROPINE.—Current rates (per oz.) for 16-oz. lots are now: ALKALOID, 28s. 6d.; HYDROBROMIDE, 23s. 6d.; HYDROCHLORIDE, 27s. 6d.; METHYLBROMIDE, 24s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

HYDROGEN PEROXIDE.—Carboy lots of 20 vols. are 5s. per gall. The 35 per cent. (by weight) is 158s. per cwt. in 1-cwt. carboys.

HYPOPHOSPHITES.—Prices per lb. are as follows:—

	7 lb.	28 lb.	1 cwt.
	s. d.	s. d.	s. d.
CALCIUM ..	6 4	5 11	5 6
IRON ..	13 3	12 9	12 3
MAGNESIUM ..	10 4	9 11	9 6
MANGANESE ..	13 6	13 0	12 6
POTASSIUM ..	8 7	8 2	7 9
SODIUM ..	7 1	6 8	6 3

IRON SALTS. — SULPHATE, B.P. crystals are 8½d. per lb. in 28-lb. lots; 1-cwt. is 51s. 3d. per cwt. and 5-cwt., 48s. 9d. per cwt. Granulated and pea crystals are 2s. 6d. per cwt. more; SULPHATE, EXSICCATED is 1s. 3d. per lb. for 28-lb., 1-cwt. 11s.; 5-cwt., 107s. per cwt., 1-cwt. fibre kegs free, other packages extra. PHOSPHATE, SACCHARATED, B.P.C., 28-lb. lots are 3s. 6d. per lb. OXIDE, RED PRECIPITATED, B.P.C., 1-cwt., 1s. 11½d. per lb.; CARBONATE, SACCHARATED, B.P.C., 28-lb., 3s.; 1-cwt., 2s. 8d. AMMONIUM SULPHATE, 1-cwt., 1s. 6½d. per lb.

ISOPRENALINE SULPHATE.—B.P. is 1s. 3d. per gm. for 1,000-gm. lots and 1s. 9d. per gm. for 100-gm. lots.

KAOLIN.—In 1-cwt. bags LIGHT is quoted at 60s. per cwt. and 1-ton lots at 57s.

LACTATES.—CALCIUM, B.P., is 2s. 9d. per lb. in 5-cwt. lots and 2s. 10d. in 1-cwt. lots; CALCIUM SODIUM for similar quantities is 4s. 5d. and 4s. 6d. per lb.; and SODIUM, B.P., 1932, from 2s. 10d. to 3s. 7d. as to quantity.

LACTIC ACID.—B.P. is 4s. 3d. per lb. for 12-winchester lots and 3s. 10d. for 5-cwt. lots.

PHOSPHORIC ACID.—B.P. (s.g. 1.750) is quoted at 1s. 4d. per lb. in 10-carboy lots. 1-2 carboys, 1s. 8d. per lb. B.P. 1914 is quoted from 1s. 2d. to 1s. 6d. per lb. HYPOPHOSPHOROUS, B.P.C., in winchesters is from 5s. 9d. to 6s. 10½d. per lb., as to quantity.

PILOCARPINE. — In 2½-kilo lots prices are: HYDROCHLORIDE, 899s. per kilo; NITRATE, 819s.

POTASSIUM ACETATE. — B.P. is 2s. 10d. per lb. in 1-cwt. lots.

POTASSIUM SULPHATE. — 1-cwt. lots are from 1s. 2d. to 1s. 3d. per lb.

PROCAINE HYDROCHLORIDE. — 1-cwt. lots are 30s. per lb.

QUININE.—Makers' nominal rates (per oz.) for 100-oz. lots and over are:—ALKALOID, 3s. 10d.; ACETYSALICYLATE, 5s. 4d.; BISULPHITE and SULPHATE B.P. 1932, 2s. 8d.; SULPHATE, B.P. 1948 3s.; DIHYDROBROMIDE and DIHYDROCHLORIDE, 3s. 10d.; FORMATE, 4s. 8d.; GLYCEROPHOSPHATE, 4s. 5d.; PHOSPHATE, 4s. 4d.; HYDROBROMIDE and HYDROCHLORIDE, 3s. 5d.; SALICYLATE, 3s. 11d.; QUININE and UREA HYDROCHLORIDE, B.P.C., 4s.; TANNATE, 2s. 7d.

QUINIDINE.—Prices are as follows:—

Home Trade	500-oz. or more per oz.	100-400-oz. per oz.
	s. d.	s. d.
QUINIDINE		
ALKALOID ..	7 6	7 8
GLUCONATE ..	8 10½	9 1
HYDROBROMIDE ..	6 2	6 4
HYDROCHLORIDE ..	6 4	6 6
SULPHATE ..	5 8	5 9½
HYDROQUINIDINE		
HYDROCHLORIDE ..	10 7	10 10
GLUCONATE ..	8 1	8 4

For export quinidine alkaloid (crystals) ranges from £11 17s. 3d. to £12 2s. 4d. per kilo and sulphate from £9 to £9 5s. 1d.

RESORCINOL. — 1-cwt. lots are now quoted at 13s. per lb. by manufacturer.

SALICYLAMIDE. — Price (per lb.) for 1-cwt. lots is 8s. 6d.

STILBOESTROL. — 1-kilo lots of B.P. and DIPROPIONATE are 730s. per kilo.

SULPHOCARBOLATES. — SODIUM PHENOL-SULPHONATE, B.P.C. (powder) is 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., is 5s. 6d.

SULPHUR. — B.P. PRECIPITATE is from £110 to £120 per ton, as to quantity, delivered U.K.

TEREBINTH.—B.P. is 2s. 3d. per lb.

TERPIN HYDRATE. — Prices are from 6s. per lb., upwards as to quantity.

ZINC OXIDE. — Lower. Rates for B.P. quality are: 2-ton lots, £132 per ton; 1-ton, £133; 5-cwt., £136; and under 5-cwt., £139.

Crude Drugs

ACONITE. — Spot supplies of Spanish *napellus* are 3s. 9d. per lb., duty paid.

AGAR.—*Kobé* is from 14s. to 16s. per lb., duty paid as to quality. Shipment (January-March) 11s.

ANISEED (STAR).—Chinese is 130s. per cwt., c.i.f., for shipment. Spot supplies are from 145s.

ANTS EGGS. — Spot price is about 13s. 6d. per lb., duty paid.

ANTIMONY. — English 99.6 per cent. is £222 10s.; 99 per cent., £210 per ton.

BALSAMS.—Quotations (per lb.) are:—CANADA: Scarce. Spot value 30s. COPAIBA, 7s. 9d. to 11s., duty paid. PERU, 10s., duty paid. TOLU (genuine as imported), 26s. to 27s. 6d.; B.P., 17s. 6d. spot.

BELLADONNA.—Herb is 2s. 6d. per lb. on the spot. Root, 1s. 10d. spot; shipment, 1s. 3d., c.i.f.

BENZON.—Sumatra block on the spot is from £25 to £30 per cwt. No. 1 for shipment is £23 5s., c.i.f. Almonds, 15s. per lb., c.i.f.

BUCHU.—Spot supplies are from 7s. to 7s. 3d. per lb.

CAMPBOR.—B.P. POWDER is from 5s. 6d. per lb., duty paid. TABLETS, 4-oz. are 5s. 10d., c.i.f. and 6s. 4½d. in bond.

CAPSICUMS.—East African off stalk are 170s. to 175s. per cwt. on the spot.

CARDAMOMS.—Aleppy greens on the spot are 15s. 6d. per lb., and shipment, 14s. 3d., c.i.f.

CASCARA SAGRADA.—Firm. American peel is 335s. per cwt., duty paid, and 300s., c.i.f.

CASCARILLA.—Spot market bare. Shipment, February-March 1957, 2s. 2d. per lb. nominal.

CASSIA BARK.—Whole on the spot is now quoted at 120s. per cwt., in bond, with forward offers still unobtainable. Broken, 100s., in bond, and 87s. 6d., c.i.f., nominal.

CHAMOMILE FLOWERS.—Roman are 22s. to 22s. 6d. per lb. on spot.

CHERRY BARK.—Thin natural is from 1s. 9d. per lb., duty paid, and rossed, 2s., on the spot.

CHILLIES.—Mombasa on the spot are 260s. per cwt.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb., OOOO, 8s. 1d.; OOO, 7s. 11d.; OO, 7s. 9d.; O, 7s. 7d.; firsts, 6s. 11d.; quillings, 4s. 9d.; chips, 1s. 2d. to 1s. 3d.

CLOVES.—Zanzibar on the spot are quoted at 3s. 8d. per lb.

COCHINEAL.—Black-brilliant is 26s. 6d. per lb. on the spot; Peruvian silver-grey, 13s. 9d.

COCILLANA.—Bark is 2s. 3d. per lb. on the spot.

DIGITALIS LEAF.—*Purpurea* is offered at 1s. 3d. per lb., c.i.f.

ERGOT.—Portuguese is 6s. per lb., c.i.f., for prompt shipment and 7s. 3d., spot.

NUTMEGS.—West Indian 80's are not quoted; unassorted, 16s. per lb.; wormy and broken, 12s. 6d.

ORANGE PEEL.—West Indian bitter quarters are 11d. to 1s. per lb.; Spanish 1s. to 1s. 3d.

PAPAIN.—Spot value of East African is 28s. per lb. for grade 1.

PEPPERMINT LEAVES.—Dutch for shipment are offered from 2s. 6d. to 3s. per lb., c.i.f.

PIMENTO.—Spot is 590s. per cwt. with forward at 540s., f.o.b.

PODOPHYLLUM.—*Emodi* on the spot is cleared. *Peltatum* is 4s. per lb. spot, and 3s. 7½d., c.i.f.

PYRETHRUM.—Powder, 1 per cent., is 2s. 11d. per lb.

QUASSIA.—Chips are 42s. 6d. per cwt. on the spot.

QUILLAIA.—Spot offers of bark at 220s. per cwt. with shipment 207s. 6d., c.i.f.

RAUWOLFIA.—*Serpentina* is offered from 4s. 3d. to 4s. 9d., landed terms, as to origin. *Vomitoria* is 2s. 6d., landed.

RHUBARB.—Quotations for Chinese are from 6s. 6d. to 9s. 3d. per lb., as to quality.

SAFFRON.—Mancha superior is 280s. to 290s. per lb., on the spot.

SARSAPARILLA.—Jamaican native red on the spot is 2s. 11d. per lb., and for shipment, 2s. 8d., c.i.f.

SASSAFRAS.—Selected bark is 5s. per lb. on the spot.

SEEDS.—(Per cwt.). **ANISE.**—Cyprian, unchanged at 175s.; Bulgarian, 160s., duty paid, both spot. **LONDON.** **CARAWAY.**—Dutch quiet at 155s., duty paid. **CELERY.**—Indian is nominal, 180s. spot. **CORIANDER.**—Small business passing. Spot, Rumanian, 75s.; Polish, 65s., both duty paid. **SHIPMENT Moroccan**, quoted at 65s., c.i.f. **CUMIN.**—Market steady. Spot, Cyprian, 132s. 6d.; Iranian, 130s., duty paid. **DILL.**—Indian in poor demand, 65s. on spot. **FENNEL.**—Indian still in short supply, 100s. spot, nominal. **FENUGREEK.**—Small business in both Indian at 70s. and Moroccan at 67s. 6d., duty paid. **MUSTARD.**—English, 57s. 6d. to 77s. 6d., according to quality.

SENEGA.—Spot is 19s. 6d. per lb. with shippers asking 19s., c.i.f.

SENNA.—New-crop *Tinnevely* LEAVES (per lb.) are: Prime bold, 1s. 6d.; prime No. 1, 1s. 3½d.; prime No. 2, 1s. 1d.; prime No. 3, 9½d. PODS, f.a.q., 8½d., spot (7½d., c.i.f.); hand-picked, 1s. to 2s. 3d. *Alexandrian* manufacturing pods, 10d. to 1s. 3d.; hand-picked, 5s. 3d. upwards as to quality.

SHELLAC.—F.O.T.N., 345s. per cwt.; F.O. No. 1, 350s.; fine orange, 360s. to 400s.

SLIPPERY ELM.—Grinding quality bark is 2s. 6d. per lb.

SQUILL.—White is offered on the spot at 57s. to 62s. 6d.

STRAMONIUM.—Indian LEAVES are 70s. per cwt., and European 80s. on the spot.

STROPHANTHUS.—*Kombé* on the spot is 6s. 9d. per lb. for the 100 per cent.; *Gratus* is 12s. Both nominal.

TRAGACANTH.—No. 1 ribbon is £175 to £180 per cwt.; No. 2, £150.

TURMERIC.—Madras finger on the spot is 80s. per cwt. with new-crop, March-April 1957, 62s. 6d., c.i.f.

VALERIAN ROOT.—Indian on the spot is 140s. per cwt. Dutch (December shipment), 187s., c.i.f.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 27s. 6d.; 1-cwt., 27s. 9d.; 56-lb., 28s.; smaller quantities, 28s. 3d.

WAXES.—(Per cwt.). **BEES'.**—Dar-es-Salaam, shipment, 620s., c.i.f., spot, 630s.; Sudanese, 600s. duty paid and 560s., c.i.f. Abyssinian, spot, 580s., duty paid, afloat, 527s. 6d., c.i.f. **CANDELILLA.**—Spot is 550s. **CARNAUBA.**—Fatty grey, spot, 570s. per cwt.; for shipment, 515s., c.i.f. Prime yellow, spot, 1,315s., nominal; shipment, 1,120s., c.i.f.

WITCH HAZEL LEAVES.—Spot supplies are 2s. 3d. per lb.; prompt shipment, 2s. 1d., c.i.f.

Essential and Expressed Oils

ALMOND.—British oil is from 13s. to 13s. 6d. per lb.; imported, 15s.

AMBER.—Rectified on the spot quoted at from 1s. 6d. per lb.

ANISE.—Chinese, 14s. per lb., spot; shipment, 13s., c.i.f.

BAY.—West Indian is 13s. 6d. per lb. on the spot.

BERGAMOT.—Spot supplies are virtually unobtainable. New-crop prices are from 73s. to 74s. 6d. per lb., c.i.f.

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt. lots.

BOIS DE ROSE.—Brazilian is 26s. 6d. per lb. on the spot and 25s. 9d., c.i.f.

CADE.—Spanish is 3s. 9d. per lb. for drum lots.

CAJUPUT.—Spot supplies are from 13s. 6d. per lb.

CAMPBOR, WHITE.—Chinese is 2s. 4½d. per lb., duty paid.

CANANGA.—Spot is from 54s. to 58s. per lb.

CARAWAY.—English-distilled is offered at 55s. and imported from 27s. 6d. to 28s. 6d. per lb., duty paid.

CARDAMOM.—Price per lb. is from 350s. for English-distilled and from 265s. to 295s. for imported.

CASTOR OIL.—Home-produced is short on the spot, with minimum terms for B.P. oil at £218 per ton.

CEDARWOOD.—1-cwt. lots of American are 7s. 6d. per lb., and Kenya, 5s. 9d.

CUBEB.—Spot prices are nominal.

CUMIN.—Quotations for English-distilled oil are about 102s. per lb. and imported 57s. 6d.

DILL.—B.P. English-distilled oil prices are nominal; imported from 35s. 6d. per lb.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 5s. 8d. per lb.; 80 to 85 per cent., 6s. 4d. Spanish 70 to 75 per cent. at 4s. 11d., duty paid. Portuguese 70 to 75 per cent., 4s. 4d., duty paid. December delivery, Chinese type, 4s. 3d., duty paid.

FENNEL.—Spanish sweet on the spot is quoted at 12s. per lb. with Russian at 20s.

JUNIPER BERRY.—Czechoslovakian oil (B.P.C.), 15s. 6d. per lb. and Jugo-Slavian, 14s. on the spot. English-distilled is 155s.

LAVANDIN.—Spot is from 14s. to 18s. per lb. as to quality, for original drums.

LAVENDER SPIKE.—Spanish is offered from 14s. per lb. on the spot.

LEMON.—Prices of B.P. oil (4 per cent. citral) vary greatly on the spot according to quality and range between 30s. 6d. and 42s. per lb. Californian, 28s. 6d. to 36s. 4d., c.i.f., as to quality, subject to licence.

PATCHOULI.—Penang is 35s., duty paid, and 30s., c.i.f.

PENNYROYAL.—Spot is quoted from 17s. 6d. per lb., duty paid.

PINE.—*Pumilionis* on the spot is from 16s. per lb.; *sylvestris*, 25s.; Siberian (*abietis*), 12s. 6d. to 15s.

ROSEMARY.—Spanish oil is very firm on the spot at 6s. 6d. per lb., duty paid.

RUE.—Spot offers for small lots are now 17s. 6d. per lb.

SAGE.—Spanish is from 8s. per lb. on the spot and Dalmatian, 30s.

SANDALWOOD.—Mysore is 87s. 6d. per lb. on the spot and East Indian, 83s.

SASSAFRAS.—Brazilian is 4s. per lb., duty paid.

SPEARMINT.—Offers of U.S.P. grade are from 32s. to 34s. per lb. on the spot.

TANGERINE.—Sicilian is from 40s. per lb., on the spot.

THYME.—Spot is from 9s. to 14s. per lb., according to content.

UNITED STATES REPORT

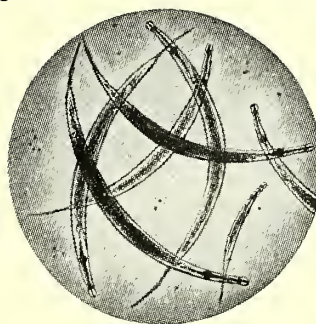
NEW YORK, DECEMBER 18: GLYCERIN was reported steadier owing to the purchase of some fair-sized lots of foreign crude at slightly higher rates. Five cent advances pushed POTASSIUM HYDROXIDE, U.S.P. pellets up to 33½ cents a lb. and SODIUM HYDROXIDE, U.S.P. pellets to 23½ cents. Crop influences made VANILLA BEAN prices lower, with Bourbons now \$7.00, down 25 cents; Mexicans, \$7.50, down 50 cents; and cuts \$7.00, down 50 cents. Higher per lb. is GUM ACACIA, amber sorts, at 21 cents, up one cent. Hungarian type CHAMOMILE FLOWERS remain strong as do other varieties. The upward trend in ESSENTIAL OILS continued. Higher per lb. were BERGAMOT, at \$10.00 (up 85 cents); Algerian GERANIUM, \$14.00 (50 cents); with Bourbon at \$14.25 (25 cents); Ceylon CITRONELLA, 90 cents (four cents); CLOVE BUD, \$2.85 (five cents); CARDAMOM, \$41.00 (\$3), and expressed LIME, \$7.00 (75 cents).



Children like it... worms don't

One week's treatment with 'Antepar' Elixir is usually sufficient to eradicate *threadworms*. A single dose clears *roundworms* from the gut. Effective without fasting, purging or supporting measures, 'Antepar' acts by paralysing the worms—they are then expelled by normal peristalsis.

'Antepar', the original elixir of piperazine, is well tolerated by patients of all ages. Its pleasant taste is popular with children. Containing piperazine citrate equivalent to 500 mgm. of piperazine in each fluid drachm, 'Antepar' is supplied in bottles of 4 fl. oz. and 20 fl. oz.



'ANTEPAR' ELIXIR



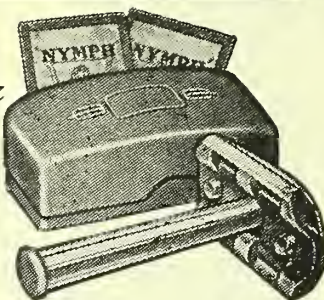
BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

Associated Houses:

AUCKLAND BOMBAY BUENOS AIRES CAIRO DUBLIN JOHANNESBURG KARACHI MONTREAL NAIROBI NEW YORK RIO DE JANEIRO ROME SYDNEY

**A Gift a Woman
gives Herself...**

*Counter
display
ensures
quick
sales*



Nymph

*ladies'
safety razor*

Backed by national
full colour advertising



Every woman is a possible buyer of this dainty toilet accessory. Reasonably priced at 3/7½ to ensure spontaneous purchase!

Complete in moulded case with 2 blades, in PINK, BLUE, GREEN. "Nymph" Blades in cartons of 6 blades, 1/6.

Obtainable from your usual wholesaler.

A PRECISION-MADE **SOUPLEX** PRODUCT

SOUPLEX LTD., MORECAMBE, LANCS.

'SURCO'

**SURGICAL ELASTIC
HOSIERY**

**SEAMED • SEAMLESS
TWO-WAY STRETCH
ELASTIC NET**

**SURGICAL BELTS
TRUSSES AND SUNDRIES**

Over 60 years' service of everything surgical
SURGICAL HOSIERY CO., LTD.
Russell Street, NOTTINGHAM
Telephone No. 75903 Telegrams: Surgical Notts



**The CARDINAL
CORONATION
DE LUXE
Ultra-Violet
Apparatus**

£8 16s. 6d.

The finest of all sun lamps

ULTRA-VIOLET LTD
13 NEW QUEBEC STREET,
LONDON, W.1

SURE-SELLING STOCK!

OVER 150 YEARS REPUTATION

KEARSLEY'S

THE ORIGINAL

WIDOW WELCH'S FEMALE PILLS

Over 10d BOX PROFIT by ordering 1
dozen 4/3 size. Bonus given on every
dozen (13). It pays to push this size.

Established 1787
in the Reign of
King George III

C. & G. KEARSLEY LTD.
71 DARTMOUTH ROAD, LONDON, S.E.23



WE WANT



MILLAMALT

BECAUSE OF THE BUTTERSCOTCH FLAVOUR

Sole Manufacturers: JEFFREYS, MILLER & CO. LTD., Leyland Mills, Wigan. (London Dept: 19 Brookside Rd. N.)

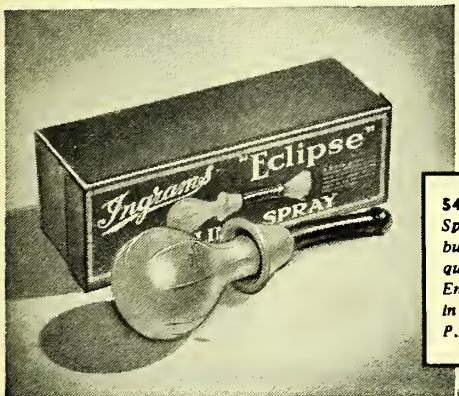
W O R L D — W I D E C O N F I D E N C E



507. *Perfex Enema*, medium bulb, red or black enamelled finish. Individually boxed complete as above. On P.A.T.A. approved list.

For over a hundred years Ingrams highest class surgical products have enjoyed the world-wide confidence of the Pharmaceutical and Medical Professions

Ingram's



546. *Eclipse Whirling Spray*, stout ribbed rubber bulb 8 oz, fitted with best quality vulcanite pipe. Enamelled finish. Packed in stout card box. On P.A.T.A. approved list.

Most products in the Ingrams range have been developed in collaboration with Medical, Nursing and Pharmaceutical Authorities. This, in conjunction with the use of the best materials available, backed by over a hundred years of experience of rubber manufacture has served to make their name the symbol of reliability and high efficiency in Surgical Rubberware. Included in their wide range is the Omega breast reliever which is approved by the Medical profession and recommended everywhere. Also high quality bed sheetings, teats and hot water bottles, both moulded and hand made. The name Ingrams is a guarantee of quality throughout the world. Obtainable from your Wholesaler, in cases of difficulty write to: -

J. G. INGRAM & SON LTD
HACKNEY WICK, LONDON E9

"I'm going to prescribe a Lastonet bandage"

This elastic net bandage may be prescribed under the National Health Scheme. Because of its two-way stretch it gives firm, even support to sprained or weak joints. Its open net lets air circulate freely. In 5-yard lengths (fully stretched) and 2½, 3, 3½ or 4 inch widths.



Lastonet
ELASTIC
NET BANDAGE



The Symbol

Quality & Service

GRAESSER SALICYLATES LTD

SPECIALISTS IN THE MANUFACTURE OF

ASPIRIN SALICYLATES
and **ALLIED PRODUCTS**

Kindly Note . . .

OUR RANGE NOW INCLUDES

METHYL SALICYLATESANDYCROFT
NR. CHESTERTelephone:
HAWARDEN 2125Telegrams:
QUALITY CHESTER

Merry
Xmas
Happy
New Year

JOHN KELLYS (LONDON) LTD.
24 OLD BROAD STREET, E.C.2

Telephone: LONDON Woll 6585 (4 lines)
Telegrams: "Ergotine, Stock, London"

NEW YORK · HAMBURG

BURNSIDE'S EUCALYPTUS OILS

Distilled in Australia from Eucalyptus leaves in accordance with the B.P. specification. W. K. Burnside Pty., Ltd., Melbourne, Australia offer:—

80/85% Rectified B.P. Eucalyptol B.P. 70/75% Rectified B.P.

Oil Eucalyptus Dives 40/45% Oil Eucalyptus Dives 90/95%

For the production of Thymol and Menthol

Oil Eucalyptus Phellandra—Phellandrene

For use in Antiseptics and Disinfectants

Agents for U.K.: **WILSON & MANSFIELD, LTD., 15 Philpot Lane, LONDON, E.C.3**

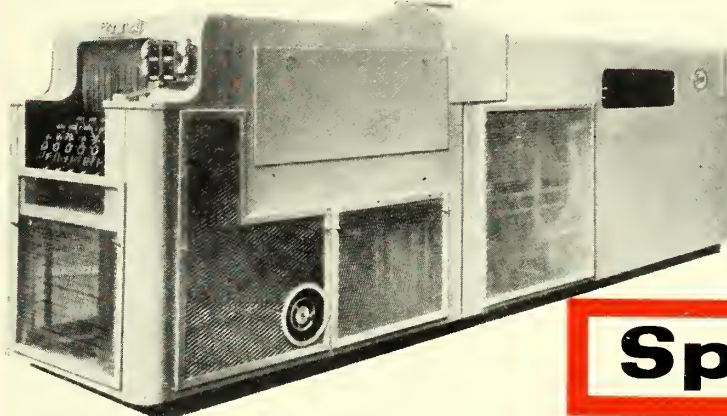
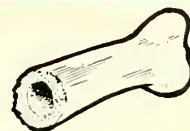
Phone: MANSION HOUSE 9264-5-6

(WHOLESALE ONLY)

Grams: WYFIELD, LONDON

TANNIC ACID**AND DERIVATIVES****THE BRITISH DYEWOOD COMPANY LIMITED**

19 St. VINCENT PLACE GLASGOW C.1

Clean as a whistle*Dry as a bone...*

That is how the Spartan Hydro bottle washing and drying machine turns them out. It minimises absolutely the risk of the odd unsterile package—delivering bottles—bright and bone dry—at an hourly rate of between 1200 and 3600. It is totally enclosed, easily accessible, fitted for variable speeds, and delivered as a complete unit. Built by specialist engineers, it is simple to instal, and particularly suitable for the Pharmaceutical industry

Spartan

HYDRO BOTTLE WASHING AND DRYING MACHINE

For all conditions at home and abroad, for all sizes and type of bottle, and for care and economy of operation SPARTAN is the answer

R. POWLEY & SONS LTD. Dept. 6/C, St. Mark's Rd. Sunderland, England

Tel. 4846-7

Grams & Cables "Powley" Sunderland

Redesigned to fit the pocket...

REVISED, FULLY UP-TO-DATE, COMPLETE

THE FITTING OF TRUSSES AND ELASTIC HOSIERY

with information on the supply of appliances
permitted on E.C.10 prescriptions under the
National Health Service

Published by
THE CHEMIST AND DRUGGIST,
28 Essex Street, Strand,
London, W.C.2
Price 4s. 6d.

FOR the chemist-contractor who supplies trusses and elastic hosiery under the National Health Service, this complete and handy illustrated handbook, written by a practising truss maker and fitter of many years' practical experience, tells:—

What appliance or garment to supply : How to measure and how to fit : Pitfalls to avoid.

With its forty-eight 4½" x 6" pages, it slips easily into the pocket. Its flexible linson cover stands up to wear without making the book heavy or bulky.

Fully revised, the book has been enlarged to include equally useful information on other appliances that may be prescribed on E.C.10 forms.

**Send for your
copy today**

Price
4/6

Postage 3d.

The Publisher:—

THE CHEMIST AND DRUGGIST, 28 ESSEX STREET, STRAND, LONDON, W.C.2

**IRON IN
AN EASILY
ASSIMILATED
FORM**

Ferrous Gluconate

B.P.C.

The new remedy in iron therapy without side effects.
Recommended for tableting or use in elixirs, etc.
Available for delivery from stock.

A quality

product of

KEMBALL, BISHOP & CO., LTD.

CROWN CHEMICAL WORKS

THREE MILL LANE · BROMLEY-BY-BOW · LONDON · E.3.

Telephone: ADVANCE 1234 (7 lines)

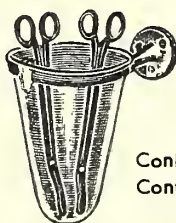
Telegrams: KEMBALL, BOCHURCH, LONDON

WHOLESALE

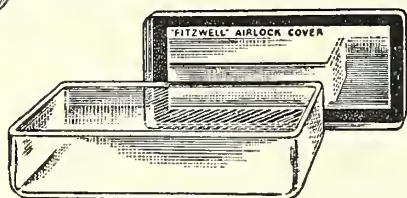
A. SEARLE & CO.

SURGICAL INSTRUMENT MANUFACTURERS

AND EXPORT

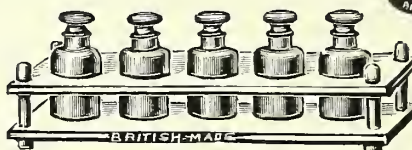


Conical Forceps
Container



Tray with Fitzwell Air Lock Cover

Cheates Forceps Jar in Glass
or Chrome Plated



Medicament Bottle Stand

A. SEARLE & CO.

SERLANCO HOUSE, 245 St. JOHN ST., CLERKENWELL, LONDON, E.C.1

Telephones: Terminus 1617, 1618

Telegrams: "Serlsurg, Smith, London"

Cables: A.B.C. and Bentleys

FITS INTO ANY CORNER

OF THE . . . FIRST AID ROOM · WARD · TOILET · CLOAK
KITCHEN · CONSULTING ROOM · DISPENSARY · OPERATING
ROOM OR WHEREVER A HANDY PLACE
FOR SMALL REFUSE IS
REQUIRED



23/- EACH
FROM

ROBERT BAILEY & SON, LTD.
SURGICAL DRESSINGS MANUFACTURERS
DYSART STREET, GREAT MOOR, STOCKPORT
Phone: STEPPING HILL 3006/7 Gram: "UNDISPUTED" STOCKPORT

By Appointment to H.M. The Queen



Manufacturers of Vacuum Vessel

THERMOS = 40 x PROFIT



A CHOICE OF 40 MODELS

Flasks · Jugs · Jars

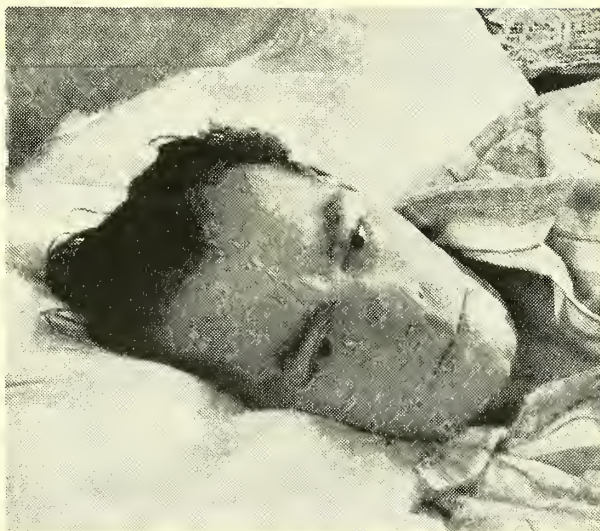
Bowls · Dewar Vessels

Thermos (1925) Limited · Seymour Rd., London, E.10

Phone: Leytonstone 4061-4

Cables: Thermos, London

'Knew
I'd forgotten
something...
we're running
short of **PLJ**'



We are **not** suggesting that if you forget to order further supplies of PLJ, you will keep awake at nights. But we **are** suggesting that if you place a fresh order with your wholesaler at this very moment you will have sufficient stocks to deal with the extra demand for PLJ which arises at this time of year — (more and more people are taking PLJ in hot water to break their colds).

4/- size 39/6 per doz.
(1 doz. per case)

2/6 size 24/6 per doz.
(2 doz. per case)

Quantity terms for
6 or 12 cases available
on application.



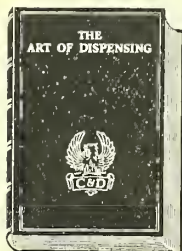
Pure Lemon Juice Co. Ltd., Croydon, Surrey.
Tel: CROYdon 3854

—A Modern Version of an Old Favourite

The Art of Dispensing



Now Completely re-written



"The Art of Dispensing" is the most economical, complete and up-to-date manual dealing with the pharmacist's work at the dispensing counter. This treatise on the methods and processes involved in compounding medical prescriptions has proved of untold value to generations of pharmacists and may, indeed, be regarded as the classical work on this subject. Many of the difficulties and perplexities met with in the daily practice of the art and craft of pharmacy are explained in simple yet concise fashion. This book is a necessary part of the equipment of every dispensary. New ideas have been incorporated and scientific knowledge has been added to the art formerly based on skilful training during apprenticeship and from experience gained in pharmacies of international repute.

Order from your Bookseller or
direct from The Publisher :

The
CHEMIST AND DRUGGIST

Price 21s.
(Postage 1/3)

28 ESSEX STREET ... STRAND ... LONDON, W.C.2



We send all our customers
Christmas Greetings
and wish them every
success in the New Year



James Townsend

AND SONS LIMITED

SPECIALIST CHEMISTS' PRINTERS

P.O. BOX No. 12
MUSGRAVE HOUSE, WESTERN WAY, EXETER

"HOLDFAST" SAFETY SOOTHER

(Patented)

Fitted with
PURE LATEX
CHERRY or STRAIGHT
TEAT.

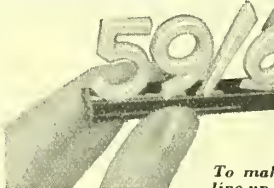
Ask your wholesaler or
write us for your nearest stockist

MAYLEN MFG. CO., LTD.
7-9 HOLLOWAY HEAD BIRMINGHAM 1



No.
S.S. 100

EXCITE CUSTOM WITH KENNETT PRICE MARKERS



Size: 1 1/2" high
Sets from 34/-

★
ALPHABET
SETS TO
MATCH

Each figure is clean-cut, shiny white plastic. It is almost unbreakable, will not wear. A rinse in soapy water makes it shine like new. To make up, clip figures into base. They line up themselves. Kennett markers stand anywhere, or pin to material (bases ready pin-holed). They excite trade, reflect value. Hundreds of pieces in one set, giving thousands of prices guaranteed for a lifetime. See them. No need to buy, just look.

Send for
FREE SAMPLES

KENNETT PRICE MARKERS
55 Eastgate Street · Winchester · Hants



Have you seen

THIS

**new beautifully designed
show card size 23" x 17½"
in 6 bright colours?**

Supplied with two side panels each 17"x10" the whole making an attractive window display, or can be used separately as counter show cards

NOW IS THE TIME

to make a window display and ensure a steady flow of repeat orders for

"AUTUMN SUN,"
the Malt and Oil with the taking flavour.

The complete set is FREE ; ask our representative or write direct, sent post free.

EDME LIMITED
IMPERIAL HOUSE

84-86, REGENT STREET, LONDON, W.1
Works : Mistley, Essex.

Enquiries invited for—

**ASPIRIN B.P.
OXYQUINOLINE
and Compounds
BARBITURATES
A FULL RANGE OF ALL BARBITURATES**

ALL BRITISH MANUFACTURE AT OUR MODERN FACTORY AT BARNET

PIERSON, MORRELL & CO. LTD.

THE ORIGINAL BRITISH ASPIRIN MAKERS

Telegrams : Pierson Morrell Barnet **BARNET, Herts.**

Telephone : BARnet 0723



Containers—
with all fittings



Cork Lined sleeves—



Corrugated pull-through boxes
with or without divisions, of course!

COMPRESSED

PAPER PACKING LIMITED

HORTON ROAD • WEST DRAYTON • MIDDLESEX • Tel: WEST DRAYTON 2237

The CHEMIST AND DRUGGIST

CLASSIFIED ADVERTISEMENTS (Prepaid)

Specialty spaced Advertisements, including:—Public and Legal Notices, Sale by Auction, Appointments, Contract Work, Patents, Partnerships, 18/- per 1/4 inch minimum and pro rata. Box 2/-. Clearances and Wants, Businesses for Disposal and Wanted, Premises, Agents Wanted, Miscellaneous, 17/6 for 36 words minimum: then 4d. per word. Box 2/-. Situations Vacant, 12/- for 36 words minimum, then 4d. per word. Box 2/-. Situations Wanted, 3/- for 18 words minimum: then 2d. per word. Box 1/-. Replies to Box numbers should be addressed to:—The Chemist and Druggist, 28, Essex Street, Strand, London, W.C.2. Phone: CENtral 6565.

ORRIDGE & COMPANY

184 STRAND, W.C.2

Tel.: TEMple Bar 9212/3 & 6340

CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL

BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF

Irish Representative: Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland Tel: Belfast 27078

APPOINTMENTS

HOME OFFICE : INSPECTOR UNDER THE DANGEROUS DRUGS ACT

THE CIVIL SERVICE COMMISSIONERS invite applications for this pensionable post in London. Travelling involved. Age at least 21 and under 35 (under 40 if specially qualified) on November 1, 1956. Candidates must have a University degree (preferably in Chemistry) or equivalent qualification. Inspectorial experience and ability to read technical literature in at least one foreign language an advantage. Starting salary (men) from £600 (at 21) up to £750 at 26; higher at 27, or over, if exceptionally well qualified. Maximum £1,530. Women's pay somewhat lower, but being raised to reach equality with men's by 1961. Five-day week.

Further particulars and application forms from Secretary, Civil Service Commission, 6 Burlington Gardens, London, W.1, quoting No. 4650/57/11. Completed application forms should be returned by January 10, 1957. C 5997

BETHNAL GREEN HOSPITAL, CAMBRIDGE HEATH ROAD, LONDON, E.2

Senior Pharmacist

Immediate vacancy, modernised department, salary as Whitley Council scales. Canteen facilities available. Applications with names of two referees to be addressed to the Hospital Secretary. C 292

CANADA ST. THOMAS-ELGIN GENERAL HOSPITAL, ONTARIO

Graduate Pharmacist (Female)

required for dispensary of General Hospital (285 beds, 61 bassinets); commencing salary £100 per month. Must be in good standing Pharmaceutical Society of Great Britain. Work as Assistant Pharmacist. Apply Department S.T.E. (P), Canadian Department of Labour, 61 Green Street, London, W.1. C 5941

DULWICH HOSPITAL, EAST DULWICH GROVE, LONDON, S.E.22

Senior Pharmacist

Applications invited for appointment to above post in a busy well-equipped department (Category III). The Hospital is associated with King's College Hospital Medical School for teaching medical students. Salary and conditions according to Whitley Council agreements. Apply giving details of qualifications and experience, with names of two referees to Group Secretary, Camberwell H.M.C., Dulwich Hospital. C 6001

HARROGATE & RIPON HOSPITAL MANAGEMENT COMMITTEE

Pharmacist

required for duties at Scotton Banks Hospital, Knaresborough, and the Royal Bath Hospital, Harrogate. Salary scale £500 x £25 (3) to £575 x £30 (5) to £725. Health Service Superannuation regulations will apply. Applications giving details of age, training and experience should be forwarded to the Group Secretary, Hereford Lodge, Cornwall Road, Harrogate. C 5996

HILL END HOSPITAL, ST. ALBANS, HERTS

Pharmacist

required at the above Hospital within easy reach of Central London. Assistant-in-Dispensing also required. Whitley Council salaries and conditions. Applications to Chief Pharmacist. C 5985

HIGHBURY HOSPITAL, BULWELL, NOTTINGHAM

Pharmacist

Applications are invited for Pharmacist, full-time or part-time duties. The post offers opportunity to obtain experience in pharmaceutical work for surgical, medical, maternity and other types of patients. Salary and conditions of service in accordance with the Pharmaceutical Whitley Council regulations. Applications, stating age, qualifications, experience, and naming two referees, to be sent to the Secretary. C 297

MILE END HOSPITAL, BANCROFT ROAD, LONDON, E.1 (484 beds)

Pharmacist and Student Pharmacist

Applications are invited for the above posts (male or female). Whitley Council salary and conditions of service. LOCUM PHARMACIST also required (for further particulars telephone Chief Pharmacist, Advance 2873). Applications, with copies of testimonials, to the Secretary, Stepney Group Hospital Management Committee, Raine Street, Wapping, E.1. C 5995

MOORFIELDS EYE HOSPITAL (Category V)

Deputy Chief Pharmacist

Applications are invited for the position of Deputy Chief Pharmacist at this Hospital. Salary in accordance with Whitley Council scale, plus London Weighting. Applications, with names of two referees should be addressed to the Chief Pharmacist, Moorfields Eye Hospital, City Road, London, E.C.1. C 6007

MOORFIELDS EYE HOSPITAL (Category V)

Assistant-in-Dispensing

Applications are invited for the position of Assistant-in-Dispensing at this Hospital. Salary in accordance with Whitley Council scale, plus London Weighting. Applications with names of two referees should be addressed to the Chief Pharmacist, Moorfields Eye Hospital, City Road, London, E.C.1. C 6008

MOORFIELDS EYE HOSPITAL

(Category V)

Senior Pharmacist

Applications are invited for the post of Senior Pharmacist at this Hospital. Salary in accordance with Whitley Council scale, plus London Weighting.

Applications with names of two referees should be addressed to the Chief Pharmacist, Moorfields Eye Hospital, City Road, London, E.C.1. C 6006

NOTTINGHAM No. 1 HOSPITAL MANAGEMENT COMMITTEE

Senior Pharmacist

Applications are invited for the appointment of Senior Pharmacist to take charge of, and develop the Sterile Products Unit at the General Hospital, Nottingham.

Detailed information may be obtained from the Chief Pharmacist.

Applications stating age, qualifications, and experience, particularly in the preparation of Sterile Products, together with the names of two referees, to be sent to the Group Secretary, General Hospital, Nottingham. C 281

ROYAL EYE HOSPITAL, ST. GEORGE'S CIRCUS, LONDON, S.E.1

Pharmacist

required for interesting work at this Hospital which has a new Pharmaceutical Department and is within easy reach of Waterloo Station. Whitley Council rates. Applications with full details and names of two referees to the Secretary. C 5993

ST. HELIER HOSPITAL, CARSHALTON, SURREY (731 beds)

Senior Pharmacist

Applications invited for above post vacant on February 4, 1957. General acute hospital (Category V); well equipped pharmaceutical department. The successful applicant will be responsible for the manufacture and issue of ward stocks within hospital and also for issues to the other 9 hospitals in Group. Salary (plus London Weighting) in accordance with Whitley Council scale. Good canteen facilities. Apply, giving names of two referees, to the Secretary. C 6000

ST. JAMES' HOSPITAL, BALHAM, LONDON, S.W.12

Assistant-in-Dispensing

Applications are invited for the above post. Whitley Council salary scale and conditions of service. Applications giving age, experience and names and addresses of two referees to Group Secretary. (0120.) C 6002

ST. LEONARD'S HOSPITAL, NUTTALL STREET, LONDON, N.1

Assistant-in-Dispensing

Applications are invited for the post of Assistant-in-Dispensing. Whitley Council salary and conditions of service. Applications, stating age, experience, and naming two referees to Hospital Secretary. C 5990

HOLBORN SUPPLIES LTD.

Isopad Electric Blankets, Perihel Actinea Sunlamps,
Pifco and Philips Blankets, Infra-Red and Sunlamps.
Remington, Sunbeam, Philipsave Electric Shavers, Pifco,
Morphy-Richards, Bylock Hair Dryers and Stands.

SUNBEAM; Mixmaster and Accessories; Automatic Frypan.

55 LEATHER LANE, E.C.1

Telephone: HOLborn 6889

IMPORTANT

Office Box numbers are intended exclusively for specific answers to particular advertisements. Price Lists, Trade circulars, Samples and Printed Matter cannot be forwarded.

Appointments—Continued**THE LONDON HOSPITAL,
WHITECHAPEL, E.1**

Registered Pharmacist

Vacancy exists for the above post. Salary £500 x £25 (3) x £30 (5)—£725, according to previous experience and service. Dining room facilities available. Write Secretary. C 289

**THE ROYAL EYE HOSPITAL,
ST. GEORGE'S CIRCUS,
LONDON, S.E.1**

Locum Assistant-in-Dispensing

required. Whitley Council rates. Apply Secretary. C 5994

**SITUATIONS VACANT
RETAIL (HOME)**

DONCASTER CO-OPERATIVE CHEMISTS, LTD., require the services of pharmacist (male or female) as branch manager. Payment on "sales" scale, plus bonus. Salary at smallest branch over £900 per year. Rota payment extra. All shops in prosperous industrial areas where sales increases are possible. 44-hour week. Applications with usual particulars to the Superintendent Chemist, Doncaster Co-operative Chemists, Ltd., P.O. Box 20, Doncaster. C 278

EALING. Pharmacist of ability required to manage attractive and modern shop with substantial salary and bonus. Good supporting staff and well-equipped dispensary. Permanency with superannuation benefits. Apply with full details stating when available for interview to Box C 4249.

LEYTON. Pharmacist required, with interest in photography, to manage a good-class establishment in this area. Splendid opportunity for promotion and development. Apply with full details, stating when available for interview, to Box C 4250.

PORTSMOUTH. Pharmacy branch manager or manageress required for pharmacy section of departmental store. Excellent wages plus prescription fees and bonus. Superannuation fund, sick pay, etc. No rota duties. Applications in writing giving details of age, experience, etc., to Personnel Manager, Portsea Island Mutual Co-operative Society Limited, 110 Fratton Road, Portsmouth. C 4233

QUALIFIED MANAGER required for old-established family business. Dispensing and photographic. Apply stating experience and salary required to Secretary, J. A. Symonds, Ltd., 16 Upper Brook Street, Ipswich. C 4261

SURREY. Lady assistant required, preferably experienced, for cosmetics, counter, display, etc. Shop just refitted. Staff of four. Very comfortable digs available. Good wages. Apply stating age, experience, etc., and availability for interview (fares paid) to Skidmores, 30 High Street, Banstead, Burgh Heath 720 day (2024 evenings and Sunday). C 4262

YORK CO-OPERATIVE CHEMISTS' SOCIETY, LTD., require branch manager, lady or gentleman, for new pharmacy in suburbs of York. Good salary and conditions. Self-contained, splendidly equipped modern flat at moderate rental. Apply, giving full details to the Superintendent Chemist, 22 Railway Street, York. C 4202

LOCUMS WANTED

LOCUM TENENS pharmacist of experience required to undertake a long tour of duties in the London area. Expenses and salary basis. Applications in first instance to Chief Pharmacist, Grange Road, Leyton, E.10. C 4251

RETAIL (OVERSEAS)**OPPORTUNITIES IN SOUTH AFRICA**

Excellent opportunities for experienced qualified Chemists and Druggists to obtain senior positions in the South African retail Pharmaceutical field. Applicants should apply in own handwriting, enclosing copies of testimonials and photograph and should state the size of their families, if any. These positions will carry a remuneration of £1,500 to £2,000 per year according to qualification and experience. Applications should be addressed to Box No. 964, Dorland Advertising, Ltd., 18-20 Regent Street, London, S.W.1. C 6005

WHOLESALE

ABBOTT LABORATORIES, International Manufacturers of Fine Pharmaceuticals, invite applications from young pharmacists interested in Medical Representation. The company recognises that these positions require full expression of the individual's personality, and this is encouraged. A good starting salary is offered; a car is provided, and a pension scheme is included in the conditions of service. The desirable age bracket is 23 to 30 years. Please give full details of previous experience to The Sales Manager, Abbott Laboratories, Ltd., 3 Wadsworth Road, Perivale, Greenford, Middlesex. C 5931

ALLIED LABORATORIES LIMITED

MEDICAL REPRESENTATIVE required for Essex territory. Men with sound pharmaceutical background and resident in the area should apply with full details. Previous experience not essential. Commensurate remuneration; Life Assurance/Pension Scheme for established staff. Allied Laboratories Ltd., 140 Park Lane, London, W.1. C 5964

REPRESENTATIVE**BURROUGHS WELLCOME & CO.**

have a vacancy for a Medical Representative in Central Lancashire. Applicants, who must be pharmacists and should be about 30 years of age, must possess a good educational background and wide pharmaceutical knowledge. Previous experience as a representative, while an advantage, is not essential. The position is progressive and pensionable (contributory scheme). Applications (by letter only) will be treated in confidence. They should give full details of experience, etc., and be addressed to the Manager, Home Sales Division (Medical), Burroughs Wellcome & Co., The Wellcome Building, Euston Road, London, N.W.1. C 5999

EDWARD TAYLOR, LTD., manufacturers of medical plasters, require a representative to cover hospitals and wholesalers, Cumberland, Northumberland, Durham and North Riding, must reside in the North-eastern area. Remuneration by salary and expenses. Application stating age, experience and full details of previous employers which will be treated in confidence to: Sales Manager, Monton, Eccles, Manchester. C 5984

**GENATOSAN LIMITED
(A member of the Fison Group of Companies)**

PHARMACIST required for development work in Pharmaceutical Development Laboratory. Previous experience in formulation work, especially tablet manufacture, would be an advantage but is not essential. Keen interest in recent advances in the pharmaceutical field and in the successful development of new products to the full-scale manufacturing stage, is required.

The post offers a good progressive salary, working conditions are excellent and there is a contributory pension scheme. Applications, giving details of age, education and experience to: The Personnel Officer, Genatosan, Ltd., 12 Derby Road, Loughborough, Leics. C 6004

LEADING RUBBER MANUFACTURERS who specialise in toilet sponges and accessories require Sales Representative with knowledge of trade. Remuneration by basic salary and generous commission. Please write stating experience and references to Box CD. 158, c/o 191 Gresham House, Old Broad Street, E.C.2. C 5992

IMPORTANT COMPANY of rubber manufacturers (makers of Suba-Seal Closures, Suba-Seal Hot-water Bottles and Suba-Seal Natural Baby Feeding requisites) require representatives in Leicester and Glasgow. Some connection or knowledge of hardware stores and ironmongers an advantage. Salary, commission and expenses. Apply giving full details including present territory worked to William Freeman & Co., Ltd., Subaseal Works, Peel Street, Barnsley. C 5972

**REPRESENTATIVE FOR SOUTH
AND SOUTH WESTERN COUNTIES,
and another for CENTRAL MID-
LANDS DISTRICT**

required immediately by company of world-wide repute. Experience and established connection with hardware and/or chemist trade essential. Age 35-50. Outstanding opportunity, good salary, bonus, liberal expense allowance, pension scheme, car provided. Full particulars in strict confidence, stating present salary level to Sales Director. Box C 4260.

REPRESENTATIVES to call on chemists in (a) Midlands; and (b) London and Home Counties, required by pharmaceutical house, marketing public and ethical products. Progressive position for suitable applicant. Salary, commission and expenses. Pension scheme. Apply giving age, experience and relevant details to Sales Manager, Box C 5998.

**DIRECTOR AND
GENERAL SALES MANAGER**

British pharmaceutical house of tradition and standing proposes to appoint a general sales manager who would be expected to merit a directorship within 12 months of taking up the appointment.

A man of wide and successful experience in marketing specialities to the medical, dental and veterinary fields is sought. He should have managerial experience in addition to detail knowledge of field work and of the planning and control of advertising and medical promotion. A pharmaceutical qualification is desirable but not essential and the preferred age group is 38-43 years.

Applications should be addressed to the Chairman, Box C 5965, giving full details of education, qualifications, past experience and present salary.

PFIZER LTD.**MEDICAL REPRESENTATIVES**

Owing to continued expansion Pfizer Ltd. wish to enlarge their Medical Representative Force and invite applications for these positions.

The Company is a British subsidiary of leading American ethical pharmaceutical house.

Preference will be given to applicants with pharmaceutical qualifications or experience with an ethical house. Good starting salary and expenses. Car provided. Non-contributory Pension Scheme. Previous applicants need not re-apply.

Applications, giving full particulars of age, experience, etc., should be made in writing to the Personnel Officer, 137/139, Sandgate Road, Folkestone, Kent, quoting ref. TN/10.
C 287

Situations Vacant—Continued**MIDDLESEX**

APPLICATIONS invited from men with real interest in medical representation to take over established connection. A sound knowledge of pharmacy is needed but experience of the work not essential. Residence in Middlesex or West London necessary. This is a first-class pensionable position. Staff know of advert. Full details, strictly confidential, to Box C 5963.

PHARMACEUTICAL VACANCIES**THE DISTILLERS COMPANY
(BIOCHEMICALS), LIMITED**

Applications are invited for the following vacancies in the RESEARCH & DEVELOPMENT DEPARTMENT of a well-known firm of Pharmaceutical Manufacturers in the Liverpool District:

Tablet Development

A graduate with pharmaceutical or A.R.I.C. qualification is required to be responsible for the development of new tablet formulations and processes up to the large-scale manufacturing stages. Previous experience in tablet making is necessary together with the ability to plan and conduct experimental work, including stability studies, leading to recommendations for full-scale production. Salary according to qualifications and experience.

Development Pharmacist

Graduate Pharmacist or A.R.I.C. in pharmaceutical formulation work is required for work which will involve the planning and conducting of original experiments leading to the large-scale manufacture of new formulations. Previous experience in pharmaceutical development work will be an advantage. Salary according to qualifications and experience.

Three weeks' annual holiday, non-contributory Pension Scheme, canteen and social facilities. Write giving full particulars of experience and education to:

The Personnel Manager, The Distillers Company (Biochemicals), Limited, Fleming Road, Speke, Liverpool, 19. Quote Ref. 77/56.

C 5967

SALES EXECUTIVE. International organisation manufacturing ethical pharmaceuticals wishes to appoint a Sales Executive shortly to be upgraded to Sales Manager. Applicant should have personal experience of medical representation and detailing and knowledge of the planning and control of such work. This is a new high-level appointment in a rapidly expanding organisation offering wide scope for an experienced and enthusiastic executive. The company has offices in London and its factory is in the South. The commencing salary will be suitably attractive. A free pension scheme is operated. Three weeks' annual holiday. Write in confidence, stating age, qualifications, experience and present salary to Box C 5991.

TABLET COATER required by progressive manufacturing chemists. Knowledge of tablet making, though not essential, would be an advantage. Good wages and excellent working conditions in modern factory. Five-day week, 8-5.30. Clinical Products, Ltd., Bardolph Road, Trinity Road, Richmond. Richmond C 5935

WHOLESALE (OVERSEAS)**COSMETICIANS**

An important group of laboratories with strong connections in Europe and overseas invites enquiries from pharmacists and industrial chemists specialised in the manufacture and formulation of pomades, lotions, pharmaceuticals and beauty products, and in particular the development of new products. The post calls for residence in France and offers excellent prospects. Please write for details to Box C 6003.

AGENTS WANTED

AGENTS required for selling special range of plastic Babywear to chemists, stores, co-ops, drapers, etc. Existing agents earning over £5 per week on these lines, mostly by repeat orders. Every support given. Liberal commission. Apply Box C 4258.

REPRESENTATIVES wanting extra line on generous commission should write to: "Plast-Aid," Craigton Works, Milngavie, Dunbartonshire.
C 5979

SITUATIONS WANTED**WHOLESALE**

PHARMACEUTICAL/MEDICAL REPRESENTATIVE (42). Extensive experience both fields. Sound connection Midland chemists over eleven years. Proved salesman. Conscientious. Desires position Midlands. Box C 4212.
REPRESENTATIVE seeks post. Has good wholesale and retail connections in London area. Would also consider inside position. Box C 4237.

BUSINESS OPPORTUNITIES

ADHESIVE PLASTERS. Manufactured to your requirements, guaranteed B.P.C. Low terms for contract work. Would consider a firm to take over sales and distribution. "Plast-Aid" Craigton Works, Milngavie, Dunbartonshire. C 5978
COMPANY of international repute has capacity for the manufacturing and packing of cosmetics and pharmaceutical goods. Modern factory with up-to-date plant. Despatch facilities available. Write Box C 4244.

COMPANY with facilities to retail ethical products to doctors and hospitals, etc., in Lancs, Cheshire, Shropshire, North Wales, wish to contact companies manufacturing ethical preparations. Distribution of samples and complete advertising, including mailing, etc. Details. Box C 4259.

WANTED

ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair prices for spot cash. We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks. Discontinued lines. Surplus and Redundant Stocks. Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3. C 153
POWDER MIXER AND SIEVER, 8-10 cwt. capacity required urgently. Details of type, age, condition and price required to Robert Blackie, Ltd., Pomeroy Street, London, S.E.14. Tel.: New Cross 1122. C 4239
WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020 and 7692. C 140

MISCELLANEOUS SALES

WINTER BRIGHT FASHION JEWELS
FREE LIST FROM
L. FRANKENBERG, LTD.,
37 HOUNDSDITCH,
LONDON, E.C.3

C 269

SALES REPRESENTATIVE for manufacturing chemists to call on qualified veterinary profession, Northern Counties and Scotland to take over very well established connection with good prospects of further development. Car and expenses provided with good salary and bonus. Some knowledge of pharmacy and veterinary products essential. Previous experience of representation is very desirable. Apply Box C 5819.

Miscellaneous Sales—Continued

100 BAYS of brand new adjustable steel shelving, 72 in. high by 34 in. wide by 12 in. deep, stove-enamelled bronze green. Sent knocked down—6 shelf bay—£3 15s. Sample delivered free. Quantity discounts. N. C. Brown, Ltd., Eagle Steelworks, Heywood, Lancs. C 5757

DEVELOPING AND PRINTING

MEDIUM SIZED D. & P. WORKS established 16 years, with enthusiastic management and staff and with the very latest equipment, would welcome your D. & P. enquiries. Postal service is per return but quality is not sacrificed. P.D.A. prices and discounts. We are members of P.D.A., W.P.F.A., and I.B.P. Mr. L. H. Morgan, Gwent Photographic Services, Snatchwood Works, Pontypool, Mon. Tel.: Taly-wain 355. C 274

TENDERS**LANCASHIRE COUNTY COUNCIL**

Tenders are invited for the supply during the period 1 March, 1957, to 28 February, 1958, of:—

Schedule A. Drugs and Pharmaceutical Preparations.

Schedule B. Surgical Sundries, Instruments and Dressings.

Schedule C. First Aid Cases.

Schedule D. Toilet Requisites (excluding Soap Products).

Tender forms (please say which schedule(s) required) from County Medical Officer, East Cliff County Offices, Preston. Closing date for receipt of tenders 12 January, 1957. C 5989

MISCELLANEOUS

BABY SCALES AND WEIGHTS of guaranteed accuracy available for hire. Please write for terms, commission, etc. Guardian Baby Scales, Ltd., 45 Holloway Road, London, N.7, North 6105. C 4216

BOOKS.—Useful books on medicinal plants and their use in therapy. Lists on application.—E. F. Steinmetz, Keizersgracht 347, Amsterdam (Netherlands). C 4263

FINANCIAL ACCOMMODATION arranged promptly by County Finance Co., Ltd., 173 High Road, Ilford, Essex. Write, call or phone: Ilford 4191. C 298

SUPPOSITORY EXCIPIENTS "IMHAUSEN"—in five different grades to suit individual needs—available from Chemicals Trading Company, Ltd., 102 Bishopsgate, London, E.C.2. C 300

AN ENCYCLOPÆDIA OF POISONS LAW

VOLUME I
POISONS LIST & KEY

20/- (postage 1/-)

The
CHEMIST AND DRUGGIST
POISONS GUIDE

VOLUME 2
POISONS PROVISIONS
& EXPLANATIONS

40/- (postage 1/6)

Compiled and co-ordinated by **W. A. WHATMOUGH**, B.Sc., Ph.C., F.R.I.C.

No pharmacist, in whatever branch he is engaged, can afford to be without these two volumes, which together form a veritable encyclopædia of poisons law. They provide complete information on what the authorised seller of poisons should do in every situation covered by the Poisons Rules and Dangerous Drugs regulations and enables poisons to be supplied without the slightest anxiety. Order these essential volumes NOW!

Order from your Bookseller or direct from The Publisher: **28 ESSEX ST., STRAND, LONDON, W.C.2**

TABLET IDENTIFICATION

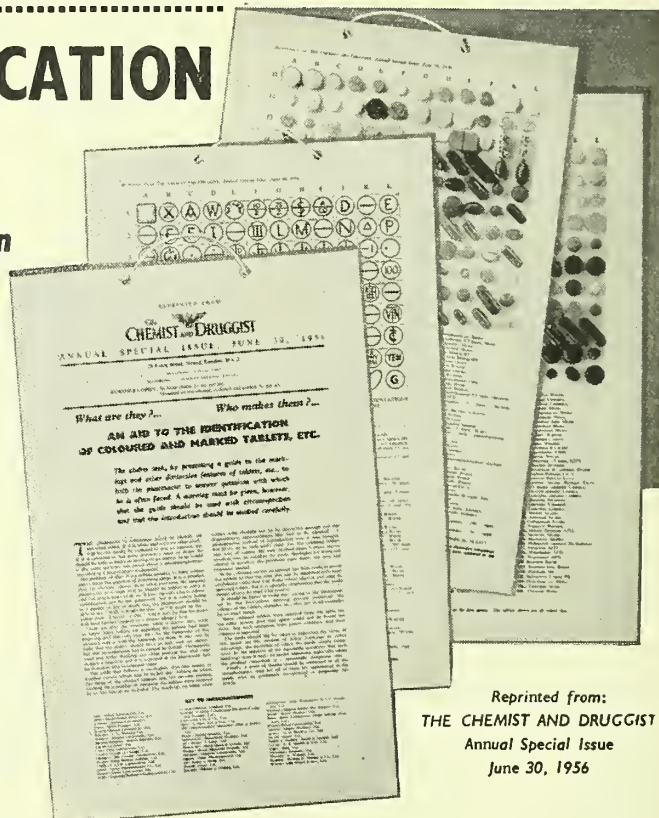
Set of 4 Charts printed in Colour with black and white diagrams for the identification of Colour and Marked Tablets, etc.

The set of four sheets size 14 x 10 ins. on art paper is priced at 1s. 6d. post free or mounted, eyeletted and corded at 5s. post free.

For convenience and speed, reference to key is arranged in columns.

Orders accompanied by Postal Order or cheque for the amount involved should be sent to the Publisher

The
CHEMIST AND DRUGGIST
28 ESSEX STREET, STRAND, LONDON, W.C.2
Telephone: Central 6565



Reprinted from:
THE CHEMIST AND DRUGGIST
Annual Special Issue
June 30, 1956





Shortening the road to recovery

Among the legacies of shock, injury, burns, surgery, severe infection and other conditions of extra-ordinary physiological stress is a period when the body's defences are severely taxed. In such conditions tissue depletion of ascorbic acid and the B-complex vitamins often occurs, hindering antibody production and tissue repair. Such situations can be safely surmounted with STRESSCAPS—the new LEDERLE formula combining five essential factors in effective therapeutic amounts. One or two capsules daily will usually overcome the vitamin deficiency and prove the real value of STRESSCAPS in shortening the road to recovery.

STRESSCAPS*

*TRADE MARK

Stress Formula Vitamins Lederle

Each capsule contains: THIAMINE MONONITRATE, 10 mg; RIBOFLAVINE, 10 mg; NIACINAMIDE, 100 mg;
ASCORBIC ACID, 300 mg; FOLIC ACID, 5 mg.

In bottles of 30.



LEDERLE LABORATORIES DIVISION

Cyanamid PRODUCTS LTD.

LONDON, W.C.2

The
CHEMIST AND DRUGGIST

DECEMBER 22 1956

THE ETHICAL MEDICAL PREPARATION FOR
THE TREATMENT OF ASTHMA



*Prescribed and recommended by the Medical Profession
in Hospitals, Private Practice and Government
Departments in all parts of the world to which it
has been introduced.*



Tax free Dispensing Pack available.

BRITISH FELSOL COMPANY LTD
WIGTON HOUSE, 206-212 ST JOHN STREET, CLERKENWELL, LONDON, E.C.1.
Telephone, CLerkenwell 5862 Cables, 'Felsol', Smith, London.